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Vol. XCVIII.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

Proprietors of the "Silver Churn" Dairy Preparations.

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Maxims.**

One does not set
out to catch
rabbits with a
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The public is learning by painful post-war experience that what a thing costs matters very much indeed, and is making comparisons and buying in the cheapest market it can find.

Unless you do likewise you cannot retain your hold on the public in its present and probably enduring mood. Economy for the bulk of the nation has come to stay, and all thoughts of high profits for manufacturer, wholesaler and retailer alike must go.

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MAY, ROBERTS & CO., LTD.

7/13 Clerkenwell Road, LONDON, E.C. 1

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$$\left(\text{Generous Profits} \right) + \left(\text{Quick Turnover} \right) = \left(\text{Sound Business} \right)$$

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TRADE MARK REGD

CURATIVE WADDING

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| Standard Assortments | Contents (with bonus). Dozens | | Bonus Dozens | Net Cost per Dozen | | Costs You £ s. d. | Yields £ s. d. | Total Profit £ s. d. | Percentage of profit on selling price |
|----------------------|-------------------------------|--------------|--------------|--------------------|------|----------------------|-------------------|-------------------------|---------------------------------------|
| | 1/3 P.A.T.A. | 3/- P.A.T.A. | | 1/3 | 3/- | | | | |
| A S | 6½ | — | ½ | 11/5 | — | 3 8 6 | 4 17 6 | 1 9 0 | 29½% |
| B S | 4½ | 1 | ½ | 11/5 | 27/4 | 3 13 0 | 5 3 6 | 1 10 6 | 29½% |
| C S | 6½ | ½ | ½ | 11/5 | 27/4 | 4 2 2 | 5 15 6 | 1 13 4 | 28½% |
| D S | 4½ | 2 | ½ | 11/5 | 27/4 | 5 0 4 | 6 19 6 | 1 19 2 | 28½% |
| K S | 13 | — | 1 | 11/2 | — | 6 14 0 | 9 15 0 | 3 1 0 | 31½% |
| L S | 9 | 2 | 1 | 11/2 | 26/8 | 7 2 8 | 10 7 0 | 3 4 4 | 31½% |
| M S | 13 | 1 | 1 | 11/2 | 26/8 | 8 0 8 | 11 11 0 | 3 10 4 | 30½% |
| X S | ½ | 3 | ½ | — | 27/4 | 4 2 0 | 5 15 6 | 1 13 6 | 29½% |

The above terms are conditional upon a 14 days' Window Display being given, and P.A.T.A. protective prices being maintained.

For New Showcards, Order Forms and full particulars, please write to the SALES MANAGER, THE THERMOGENE CO. LTD., Lever House, Victoria Embankment, London, E.C. 4.

(Works—Haywards Heath, Sussex.)

QUALITY PREDOMINATES

WITH the help of our advertising you have to sell these products the first time only. The second and each successive sale is assured by the quality of the goods themselves. Never be out of stock of these quick-selling, rapidly moving lines. Recommend them with confidence and remember—*every sale means a pleased and satisfied customer.*

REUDEL BATH SALTRATES^{AND} ALKIA SALTRATES

THE BATH PREPARATION PAR EXCELLENCE, cures Corns and all Foot Troubles permanently, stops Rheumatic or other aches and pains within ten minutes.

Sells at 2/- and 3/3 (P.A.T.A.)

The acme of perfection in Salines. Unrivalled for Liver, Kidney, Stomach, Blood and Intestinal Disorders.

Sells at 3/3 a large bottle (P.A.T.A.)

These products simply will not stay on the shelf.

SOME TRULY REMARKABLE TESTIMONY FROM CHEMISTS

READ THESE LETTERS IN SEQUENCE:

CHARLES ROBERTSON
CHEMIST AND
PHOTOGRAPHIC DEALER
115, Market Street, ST. ANDREWS.
Feb. 9th.

Messrs. Saltrates Ltd.,
London, W.1.

Dear Sirs,

Please send enclosed order carriage paid.

Reudel is very restles. I have difficulty in keeping it on the shelf.

This may interest you:- At the same time I received an order for Reudel by post yesterday, I had a customer at my counter calling for a second packet. — A few moments after, another customer called for 3/3 Alkia.

In less than a quarter of an hour I had realized 3/1 profit, from your advertising. Very interesting, isn't it? I am always interested in results from advertising, being a keen believer in printers ink.

Yours very truly,
Charles Robertson

W. CORNISH, M.P.S.
THE PEOPLE'S CHEMIST
The Oxford Pharmacy 188 Lower Ashley Rd.
BRISTOL
April 24th.

Messrs. Saltrates Ltd.,
London, W.1.

Dear Sirs:- I was reading through reproduction of Mr Robertson's (St Andrews) letter on page twelve of to-day's date Chemist & Druggist and I think this afternoon I surpassed his feat, in my shop as above. Four customers following, purchasing Saltrates preparations, as follows.

| | |
|---------------------------|---------------------------------------|
| 3/- Reudel Bath Saltrates | } All in five minutes or so. |
| 3/3 Alkia Saltrates | |
| 2/- Reudel Bath Saltrates | |

Later on in the day I was asked for another 2/- size Reudel, but in this case the customer would not take the 3/3 size, so I missed the sale, having just sold the last small package. I am quite prepared to admit that this is a coincidence that does not often occur, and probably was in part due to other brother Pharmacists being "Sold out". But your preparations are always good sellers with me.

I thought the foregoing would interest you, and it is absolutely authentic, as my Lady Assistant can witness. If the "Tale wants adorning" and I may "point a moral", I would say never load up your shelves with goods that stick there, but to borrow Mr Robertson's "Matty phrase fill up with "restless" goods, which are restless to the point of removal for "Cash Fill Food".

With compliments,
Yours faithfully, *W. Cornish*

Note.—The above statements were sent to us without solicitation of any kind.



YOU can stock these goods on Guaranteed Sale Terms. Carriage Paid in United Kingdom on orders for 3 dozen and over, which may be assorted. Special Terms for Window and Counter Display.

SALTRATES LIMITED
Euston Buildings, LONDON, N.W.1.



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The extraordinary call for "**NEW-SKIN**" during the last 3 months has resulted in our selling, during that 3 months, more than during the whole of the previous year.

This has several times cleared us out of stock, and at last has compelled us to temporarily stop our press advertising till we can catch up with orders, which still continue increasingly to pour in.

At present we are right out of stock of the Small Size (10½d.), but we still have a working stock of the Medium Size (2/-). If the Public only knew that the Medium contains 4½ times the Small, at only just over twice the price, they would buy Medium every time.

Until, therefore, we can replenish our stocks of Small, why not order Medium, and tell the public how much better value that Size is?

That will pay you much better than missing your share of the "**NEW-SKIN**" boom by being out of Stock until our next supply of Small comes in.

Directly you show "**NEW-SKIN**" in your window or on your counter nowadays it sells.

Order some MEDIUM to-day from your Wholesaler
OR FROM

J. E. GARRATT, 96 Southwark St., London, S.E.1



*Recommend
Diamond Dyes,
it pays!*

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give satisfaction both to you and
to your customers because :—

*Diamond Dyes are scientifically prepared in the
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(B) FOR COTTON AND MIXED GOODS (White Package).

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customers get a complete dye and tint in the one
package.

*Diamond Dyes give satisfaction to you because
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makes satisfied customers and permanent customers.*

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mum. On 1 gross
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carriage.

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Manufactured by the

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AMSTERDAMSCH E CHININEFABRIEK
NEDERLANDSCHE KININEFABRIEK

Apply to

Tel. No.
City 6550
(8 lines)

R. W. Greeff & Co. Ltd.
THAMES HOUSE, QUEEN STREET PLACE, LONDON, E.C.4.

Tel. Add.
"Greeff, Cannon,
London."

Branch Office,

PALATINE BANK BUILDINGS, 10, NORFOLK ST MANCHESTER.
Tel. No. City 5706/7. Tel. Add. Greeff, Manchester.



Pharmaceutical & Photographic Products

(WHOLESALE QUANTITIES ONLY)

Acetone

Acid, Acetic, Glacial

Formaldehyde

Acid, Acetic, Pure

Lead Acetate

Acid, Oxalic

Potash Binoxalate

Potash Permanganate

R. W. Greeff & Co. Ltd.

Thames House, Queen Street Place, London, E.C. 4

Telephone 6550 City
(8 LINES.)

MANCHESTER BRANCH
PALATINE BANK BUILDINGS
10, NORFOLK STREET.
TELEPHONE CITY 5706/5707

NEW YORK AGENTS
R. W. GREEFF & CO. INC.
78, FRONT STREET,





2340

TOOGOOD'S FLORAL BATH CRYSTALS

In Bottles, Fitted Boxwood Top
Corks, Capped and Ribboned.

Assorted Odours—Lavender, Verbena, Cologne,
Oriental Rose and Violet.

| | | | | |
|------|------|------|------|------------|
| 8 | 10 | 12 | 16 | 20 oz. |
| 12/- | 13/6 | 16/6 | 20/- | 24/- doz. |
| 32 | 40 | 60 | 90 | 130 oz. |
| 36/- | 47/6 | 66/- | 90/- | 120/- doz. |

Customer's Name on 3 dozen assorted.

FLORAL BATH CRYSTALS

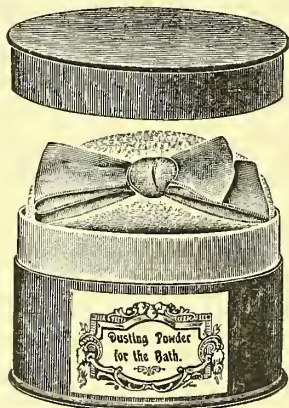
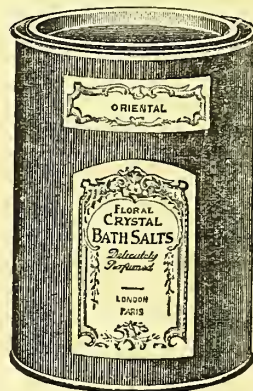
Assorted Odours as above in Lever
Lid Packages Covered Wood Veneer

2
26/-

4
50/-

7 lb.
90/- doz.

Customer's Name on 2 dozen assorted.



DUSTING POWDER FOR THE BATH.

IN WOOD VENEER BOXES.

5" x 3½"

Complete with Wool Bath Puff.

| | | | | |
|--------------|----|----|----|-----------|
| No. 3688.. | .. | .. | .. | 39/- doz. |
| Without Puff | .. | .. | .. | 20/- .. |

Telephone:
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

Telegrams:
"TOOGOOD,
BOROH,
LONDON."

Maw's



Page

The Second Great Venture.

FOLLOWING on our announcement last month of our big "Meritor" advertising campaign, we are now able to announce another big step in advertising.

This time we are concentrating on "Parex" Baby Powder. On February 5th the first advertisement appeared in the "Daily Mail," and from that date onwards "Parex" Baby Powder will be advertised in a group of daily papers.

Are you prepared to deal with the result of this advertising? Have you the necessary stock of "Parex" Baby Powder? Remember that every "Parex" Baby Powder advertisement states clearly—"obtainable from chemists only." An order for 1 dozen tins only will enable you to support our efforts to increase the demand for "Parex" Baby Powder. The cost is 6/9 per dozen and the retail price is 1/- per tin, which allowing for 5% cash discount is 87% on cost.

"Parex" Baby Powder is being advertised prominently, regularly and effectively—"Parex" Advertising is also advertising every chemist in every town. Connect yourself with this progressive step in advertising by displaying "Parex" Baby Powder, and the attractive show-card which we send you with every dozen.

Watch for the "Parex" Baby Powder advertisements in the following papers:—"Daily Mail," "Daily Sketch," and "Daily Mirror."

S. Maw, Son & Sons. Ltd.

Aldersgate St., London.

and Barnet.

Telephones
City 7
Private
Branch
Exchange

Telegrams
Eleven
Cent
London



Cables
Eleven
London

Code
A.B.C.
4th & 5th
Edition

THE BEST Toilet Roll

VALUE IN THE TRADE



No. 1 THIN

Full 12 ounces.

BLUE AND YELLOW WRAPPER.

1 gross 65/-
5 „ @ 63/-

CARRIAGE PAID.

Retail, 9d. each, 8/6 doz.

TWO SHOWCARDS FREE.

THE TIME TO ORDER: NOW!

Sample sheets on application.

SUTTLEY & SILVERLOCK

World's Label Printers,

BLACKFRIARS ROAD,
LONDON, S.E.1.

PINE TREE TOILET PAPER.

We are pleased to state that we are able to supply again our old and favourite proprietary brand in Cases, Packets and Rolls.

Send for Samples & Prices.

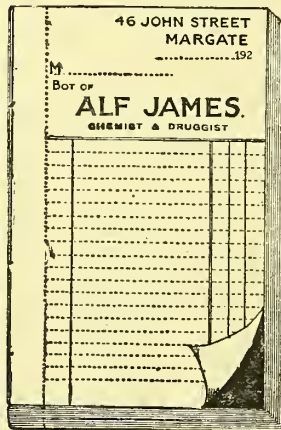


You never know

what may happen by not keeping a duplicate copy of all your correspondence. It's so easy to do this with the 'Charterhouse' Duplicate Order or Memo Book which is made only with 100 printed tear-outs 8 by 4½, and 100 plain duplicates 1st leaf, good white bank paper, printed any ordinary heading, and perforated. 2nd leaf, white paper, plain and fast. Wired binding, stout Kraft flush paper covers; one sheet of carbon per book.

The "Charterhouse"

Duplicate Order or Memo Book



Saves time, money and trouble. Each sheet is numbered so as to give an accurate record.

Prices per Book:
12 books... 1/9
24 „ ... 1/8
36 „ ... 1/7
48 „ ... 1/6
72 „ ... 1/5
144 „ ... 1/4

Numbering in duplicate, 3d. extra per book. These books can also be had with Cash Lines at same prices.

J. C. KING & CO.

42-60 Goswell Rd
LONDON, E.C.1.

Order Your Colorite before February 15th

IF you order your Colorite supply on or before February 15, it will be despatched at once—but the invoice will be dated April 3. Orders sent in after February 15 will receive the usual dating.

The last half of February will not be a bit too soon to receive your Colorite supply. Colorite time is almost here. Already thousands of women are giving thought to the Spring hat problem. And scores of thousands know there is nothing to beat Colorite for making old straw hats look new.

You can display Colorite this month and sell Colorite this month. The Colorite display will show that you are making timely provision for your customers' needs. It will put the stamp of up-to-dateness on your shop.

Colorite is being advertised more extensively than ever. The Colorite reputation and the Colorite advertising will soon clear your shelf.

Full set of highly attractive advertising matter, lithographed in 10 colours, for display in window and on counter, sent free with first order for 3 dozen and upwards.

**P.A.T.A. price 1/4 per bottle.
12/- per dozen. 5% Cash 7 days.**

Carriage Paid.

**Henry C. Quelch & Co.,
4/5, Ludgate Square, LONDON, E.C.4**

16 COLOURS

Jet Black (Gloss)
Dull Black
Cardinal Red
Yellow
Navy Blue
Cadet Blue
Victory Blue
Sage Green
Lavender
Old Rose
Cerise
Burnt Straw
Brown
Violet
Grey
Natural



Millions of People

are reading and talking about the **PRO-PHY-LAC-TIC** Tooth Brush in the **YELLOW** Box

To an ever-increasing public our convincing advertising is driving home in the monthly, weekly, and daily Press the merits of the Pro-phy-lac-tic Tooth Brush in the sanitary **YELLOW** Box.

Let the public see the Pro-phy-lac-tic in your windows—and thus profit by this advertising.

Pro-phy-lac-tic Tooth Brush

GENUINE only in the **YELLOW** Box

(Manufactured by the Florence Mfg. Co.,
Florence, U.S.A.)

In three sizes—adult's, youth's, and child's; in three textures of bristles—hard, medium, or soft; one quality only—each in its individual **YELLOW** Box with hook for hanging.

Price to the Public, **2/6**. To the Retailer,
A Full Trade Profit.

Sold through the Wholesale Houses Only.

Wm. E. PECK & CO., Inc.
31 Bartholomew Close, London, E.C.1.



Something to crow about
— and worth putting
'own name' on.

Tell us your quantities
— we'll fix you with
prices.

**SPLendid
SHOWMATTER
AVAILABLE.**



AYRTON, SAUNDERS & CO., Ltd.
Manufacturing Chemists, **LIVERPOOL, England.**

ESSENCES & SYNTHETICS LTD.



Directors: D. MISELL. A. A. DENT.

4 Carlisle Avenue, Fenchurch Street, LONDON, E.C.3.
Works: HULL.

Manufacturers of Synthetics and Importers of Essential Oils
and Pharmaceutical Products.

Telephone No.: Avenue 1419.

Telegraphic Address: "Essynthet, Ald, London."

We are the Sole Selling Agents for the Co-operative Society
of the Proprietors of Flower Groves, Vallauris and Pegomas
(French Riviera).

"HORTUS"

Concrete or Absolute.

JASMIN, ROSE,

RESEDA,

CASSIE,

Etc., Etc.



"NEROLIUM"

Orange Absolute, Concrete Orange,
Neroli Pure.

All the above products are
distilled on the Grower's
own estate.

They are sold under
guarantee of purity.

Samples can be had
on application.

BENZYL BUTYRATE.—Com-
bined with Benzyl Acetate
produces a fine Jasmin odour.

CITRAL 100%.

GERANYL BUTYRATE.—Useful for its
sweet odour in combination with
Rose Compositions.

GERANIOL EXTRACT FROM JAVA.

GERANIOL FROM PALMAROSA.—Its supe-
riority over that made from other Essential
Oils is admitted. Its sweet Rose odour
makes it suitable for Rose Compounds.

GERANIOL ACETATE. GERANIOL FORMATE

GERANIOL VALERIANATE.

HYDROXYCITRONELLAL.—Pure (Lily of the Valley base).

IONONE ALPHA. IONONE BETA. IONONE 100%.

IONONE FOR SOAPS.

METHYL IONONE.

VERT DE VIOLETTE.—Natural product of Violet leaves—

"The green of the Violet." Gives to Violet perfumes
the suggestion of "Greenish" colour odours so appreciated in
a bunch of Violets.

LINALYL ACETATE 92%.—Ester from Bois de Rose. A colourless
oil with the characteristic odour of Bergamot. Specially adapt-
able to Lily of the Valley and Jasmin odours.

METHYL SALICYLATE.

PHENYL ETHYL ALCOHOL.

PHENYL ETHYL BUTYRATE.—Combines with Phenyl Ethyl Alcohol,
producing in Rose odours the sweet smell of Rose leaves.

PHENYL ETHYL FORMATE.

PARACRESOL ACETATE.—For Narcissus base.

RHODINOL OTTO.—A New Production.—This has been recently perfected and is
one of the most useful products offered to perfumers. It is a true reproduction
of the active perfuming principle of the Rose.

The dominant quality of RHODINAL OTTO is its Rosy Sweetness; the tenacity
of its original sweetness is apparent even after drying out on the test paper. This
stamps its purity and we guarantee its entire freedom from blending. It can be
used in all types of odours of which Rose is the base, the results being comparable
only with those obtained by using the natural product.

RHODINOL NO. 1.

RHODINOL ACETATE.

RHODINOL FORMATE.

RHODINOL BUTYRATE.

RHODINOL VALERIANATE.

LINALOOL from Bois de Rose.

TERPENYL ACETATE.

TERPENYL FORMATE.

Samples for testing purposes will be sent on application.



Check
the onslaught of INFLUENZA
with

“VAPEX”
INHALANT

2/-
per Bottle

3/-
per Bottle

on your handkerchief
— just a drop gives all-day protection.

Reg. No. 130

THOMAS KERFOOT & CO. LTD. LONDON AND BARDSLEY VALE

**Miniature of a Coloured Showcard now
going out with all orders for “VAPEX”**

A copy will be sent to any Chemist on request.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N1
ESTABLISHED 1797.

COPYRIGHT

DEVON WHARF & BELL WHARF, MILE END, LONDON, E.1.

pompeian

FREE PANEL OFFER

diverting huge popularity of the

Mary Pickford Art Panel

into sales of Pompeian Beauty Preparations through your Pharmacy



Ten thousand of these new Mary Pickford Pompeian Art Panels are being sold direct to the public weekly at 6d. each. While the announced free panel scheme is in operation the usual method of distribution will be discontinued and a doubled volume of press advertising will give wide publicity to the fact that *panels are only obtainable on purchase of Pompeian items from the retail chemist*, thus diverting the enormous demand to the advantage of those pharmacists accepting this offer of 30 Art Panels free.

The duration of this free offer of Panels to the public through your pharmacy will be limited by the number of Panels allotted for the scheme, and in any event will not extend beyond Easter. While supplies of Panels last we shall be pleased to repeat up to that time, *but your initial order must be received by February 17th.*

30 POMPEIAN ART PANELS FREE

With your order for £3 3s. or more Pompeian Beauty Preparations we will send 30 of the new 1923 Mary Pickford Pompeian Art Panels for your free distribution to purchasers of any of the Pompeian items, together with effective display material. An additional 5% will be allowed on orders of £5 and upwards.

Your order may be sent through your usual wholesaler or direct to us. If your order is sent

direct, and if you have not already a standing account with us, please forward two trade references.

Owing to the production costs of these high quality panels, the supply is necessarily limited, and we urge you to take advantage of this offer at once. Fill in this order form to-day and so ensure receipt of your order in time to take full advantage of this sales-making plan.

ORDER FORM

To J. E. ELLIS & CO. (U.K. Pompeian Agents),
Dept. N. 100, Horsforth, Leeds (or to whichever wholesaler you prefer).

PLEASE send me the following Pompeian Beauty Preparations (value not less than £3 3s.) It is understood that I also receive 30 Mary Pickford Art Panels for free distribution to my Pompeian Customers.

| Quantity Doz. | Article. | List Price | P.A.T.A. | Quantity Doz. | Article. | List Price | P.A.T.A. |
|------------------|------------------------------|---------------|----------|------------------|-----------------------------|---------------|----------|
| | Pompeian Beauty Powder | 21/- | 2/6 | | Pompeian Massage Cream : | | |
| |Naturelle | | | |Small | 21/- | 2/6 |
| |Rachel | | | |Medium | 32/2 | 3/10 |
| |Rosee | | | |Large | 42/- | 5/- |
| |White | | | | Pompeian Night Cream : | | |
| | Pompeian Day Cream ... | 21/- | 2/6 | |Tubes | 12/7 | 1/6 |
| | Pompeian Bloom ... | 21/- | 2/6 | |Small Jar | 16/1 | 1/11 |
| | Pompeian Fragrance (Talc) | 10/6 | 1/3 | |Large Jar | 32/2 | 3/10 |

**Positively NOT VALID after
FEBRUARY 17th.**

IF you have
not already
an account
with us, please
forward two
trade references

Name.....

Address.....

Town.....County.....

References.....

(if necessary).....

“Prepare for the New Season!”

5 Profitable Lines with a Ready Sale

PIVER'S Crème Givrine

the old favourite
(in china jars.)

Wholesale :
16/- doz.

Retail :
2/- per jar.

PIVER'S Eau Lenitive

for the hands and
complexion.

Wholesale :
20/- doz.

Retail :
2/6 per bottle.

PIVER'S Onguline

THE durable Nail
Polish (in nickeled
case.)

Wholesale :
6/- doz.

Retail :
9d. each.

PIVER'S Lip Salves

THE best dark red
(in nickeled case.)

Wholesale :
7/- doz.

Retail :
10½d. each.

PIVER'S Crayon Hindou

(Eyebrow Pencil) in push-up metal
case, made in five tints. Wholesale
5/- doz. Retail 7½d. each.

Parfumerie L. T. PIVER, PARIS

London Depot: 102 Dean St., Oxford St., W.1

The Famous **Mary Pickford** Pompeian Art Panels **FREE !**

For full particulars

see back of this advertisement.

GOLD

is the recognised standard of value throughout the civilised world

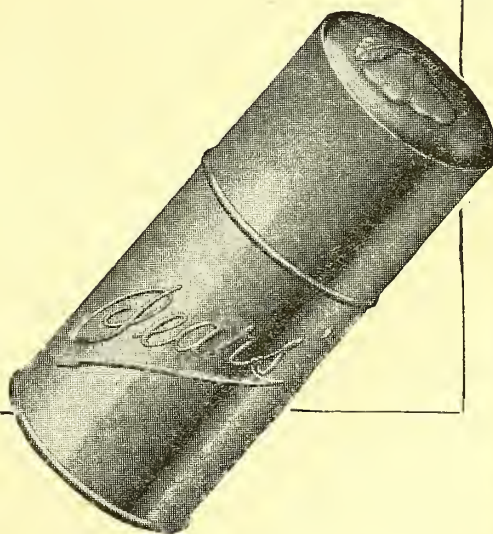
With that fact in our minds we decided to market the famous Pears' Golden Series. We wished the containers of that Series to be an outward expression of the excellence of their contents, so we selected Gold.

Pears 'White Opaque
SHAVING
STICK

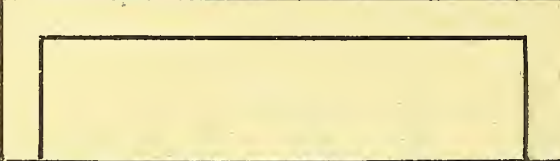
is one of *Pears* Golden Series.

IT sells again and again, where other sticks only sell once, because it is the perfected product of over 130 years' experiment and experience. You and your customers have the name Pears as a guarantee of satisfaction.

Pears' Shaving Stick has been on the market a shorter time than most of its competitors, but it has leapt into first place in popularity because we waited until we were quite sure we had produced an article of supreme character.



A. & F. PEARS, Ltd.,
71-75, New Oxford St.,
LONDON, W.C.1.



MARCUSON'S

DEFY
COMPETITION
IN

SPONGES

BUYING IN
LARGE QUANTITIES
& BEING UNFETTERED
BY ANY COMBINE
WE CAN OFFER AT
EXCEPTIONALLY
LOW PRICES.

**MARCUSON
BROS. & CO.**

*Only
English Address:*

**32 MINORIES,
LONDON, E. 1**

Cables: "Pantalaria, Ald., London."
Phone: Avenue 840

Brilliantines and Toilet Paraffins

WHEN you stock "Specialty Dept." Brilliantines and Toilet Paraffins you are carrying products which you can confidently recommend to your most fastidious customers, knowing that the high standard of quality is such that your customer will ask for it again.

It will pay you to stock "Specialty Dept." lines. As one of the largest importers of White Oils in the United Kingdom we are in a position to offer you better quality at lower prices.

The superiority of "Specialty Dept." quality, and the keenness of our quotations can be proved by applying for samples and prices.

PACKED GOODS

All classes of Toilet and Medicinal Lines, including Liquid Paraffins, Emulsions, Ointments, Cold Creams, Petroleum Jellies, etc., in most attractive packings at extremely fine prices.

SEND FOR LATEST PRICE LIST.

Specialty Dept.
Anglo-American Oil Co. Ltd.

Albert Street,
Camden Town, N.W.1.

D.A. 500

PREMIER VINOLIA SOAP



*Reproduction of
Cut-out supplied
to the Trade.*

The right soap for big business

PREMIER Vinolia Soap needs no introduction. It has established itself in many thousands of homes in all parts of the world. It is pre-eminently a "best-seller," and its unique value is being constantly advertised.

Stock Premier Vinolia and ensure a rapid turnover. It pays to keep and push the best. That is why Premier Vinolia always brings big business.

DEARBORN (1923) LTD.

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

| | Price per doz. to Retailer | Selling Price P.A.T.A. |
|--|----------------------------------|------------------------------|
| PILENTA SOAP ... | 10/- | 1/- |
| A complexion soap. | | |
| PROLACTUM ... | 10/- | 1/- |
| For the lips. | | |
| PARSIDUM JELLY ... | 10/- | 1/- |
| For wrinkles. | | |
| ALLACITE OF ORANGE | | |
| BLOSSOM ... | 22/6 | 2/6 |
| A dressing cream. | | |
| BORANIUM ... | 22/6 | 2/6 |
| A hair tonic. | | |
| CLEMINITE ... | 22/6 | 2/6 |
| For a face lotion. | | |
| COLLIANDUM ... | 22/6 | 2/6 |
| For a face tint. | | |
| PERGOL ... | 22/6 | 2/6 |
| A deodorant. | | |
| TEKKO PASTE .. | 22/6 | 2/6 |
| Camphor cream. | | |
| STALLAX ... | 22/6 | 2/6 |
| For a shampoo. | | |
| JETTALINE ... | 31/6 | 3/6 |
| For clearing the skin. | | |
| PHEMINOL ... | 36/- | 4/- |
| A depilatory. | | |
| MENNALINE ... | 36/- | 4/- |
| For the eyelashes. | | |
| MERCOLIZED WAX ... | 31/6 | 3/6 |
| A face cream. | | |
| STYMOL ... | 36/- | 4/- |
| For oily complexions and blackheads. | | |
| SILMERINE ... | 22/6 | 2/6 |
| Hair-curling fluid. | | |
| BARSYDE ... | 22/6 | 2/6 |
| Dandruff eradicator. | | |
| TAMMALITE ... | 22/6 | 2/6 |
| For grey and faded hair. | | |
| LIQUID PERGOL ... | 31/6 | 3/6 |
| To check excessive perspiration locally. | | |
| BICROLIUM ... | 22/6 | 2/6 |
| For whitening the hands. | | |
| HARAPOSA ... | 22/6 | 2/6 |
| Nut oil shampoo. | | |
| COCONOIDS ... | 31/6 | 3/6 |
| For figure development. | | |

The Products of

Messrs. PARKER, BELMONT & CO.

| | | |
|-------------------------------|------|-----|
| CLYNOL BERRIES { | 36/- | 4/- |
| For obesity. | 58/6 | 6/6 |
| SOFT PALERIUM ... | 45/- | 5/- |
| For wrinkles. | | |
| LIQUID NAIL POLISH ... | 10/- | 1/- |
| Brilliant and lasting. | | |

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd, Cape Town, etc.
 SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
 SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires
Straits Settlements & Federated Malay States: MEDICAL WALL, Ltd., Singapore.

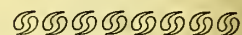
"Jackel's Cream"

(without Grease)
for THE HAIR

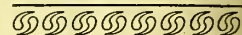
Sold Everywhere
Established 1883.



CRYSTALLISED
7 oz. CREAM 10 oz.
Trade Mark attached to each
bottle.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headwear. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.



Prices for Wholesale and Export
Houses on application.

Jackel et Cie (of Paris)
Ltd.

Sauchiehall Street,
GLASGOW.

"Own Name" Packed Goods
for the Retail Chemist.

"Newbery's"
FRANCIS NEWBERY & SONS LTD.
1923

Established A.D. 1746
and still packing

**TOILET REQUISITES &
PHARMACEUTICALS.**

Our up-to-date quality, style, and finish is second to none. Competitive prices. Quotations for quantities and special attention paid to printing in customers' name and address on a large variety of labels. If you desire a special call from one of our representatives with any particular samples, please address postcard to:

27-28, CHARTERHOUSE SQ.
LONDON, E.C.1.
AND AT CARDIFF.

Protection Plus Dentifrice Economy

HERE is a selling point of importance to chemists who stock Forhan's For the Gums.

As a systematic, twice-daily protection against Pyorrhea Forhan's For the Gums is probably well-known to your customers. But show them that one of these large, long-lasting tubes *also* represents dentifrice economy.

Forhan's For the Gums is so highly concentrated, that a given amount has far more tooth-cleaning value than is usual. A very little on the brush is all that is necessary to clean and polish the teeth, keep the gums firm and healthy, and prevent Pyorrhea.

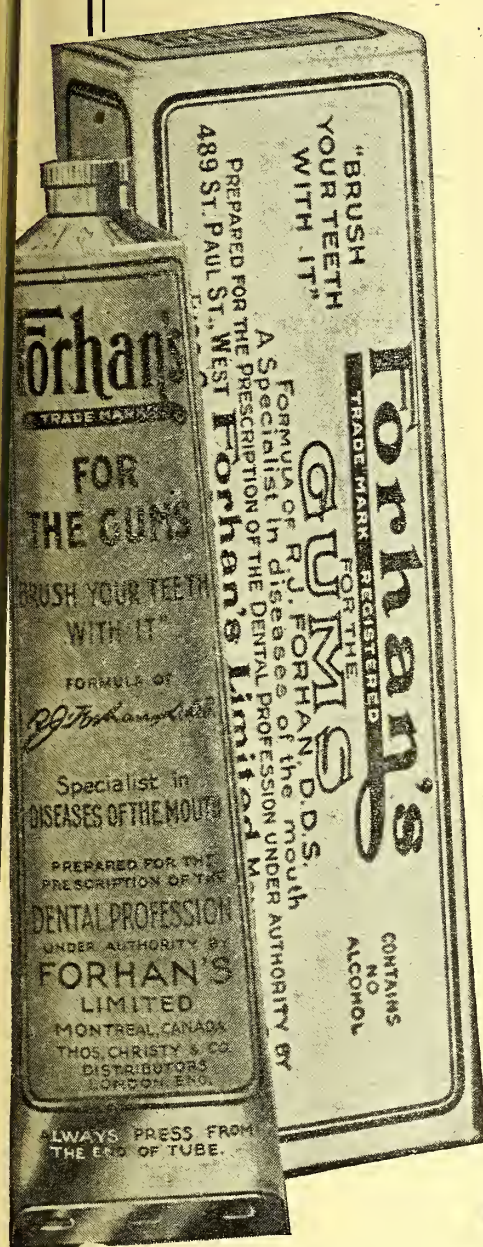
So that while Forhan's For the Gums does more than the ordinary dentifrice, it is also more economical to buy in these long-lasting tubes.

They represent a better purchase for the customer, and a better sale for you.

THOS. CHRISTY & CO.,
4-12, Old Swan Lane,
London, E.C.4.

Forhan's

FOR THE GUMS



Actual Size

'Phone :
HAMMERSMITH
1605.

EVERY CHEMIST KNOWS

Enolin

TOOTH PASTE

AND THE PUBLIC APPRECIATE IT

*Enolin sales bear
large profits.
Advertising
matter liberally
supplied.*

A NEW COMPANY, WITH ENTIRELY NEW BOARD,
HAS BEEN FORMED, WHO ARE NOW SOLE
MANUFACTURERS OF ENOLIN TOOTH PASTE.

Your enquiries and orders are solicited by :

ENOLIN, Ltd., 201 King Street, Hammersmith, W.6.



SPECIAL OFFER!

BATH SOAP

FINEST QUALITY

Round Tablets. Weight about 4½ ounces.
1 dozen in box. 4 Assorted Perfumes.
Original Cases of 45 doz. Tabs. cases free.

Nett cash with
order f.o.r. London. **2/7½** per dozen Tabs.

PAUL TRANOY 33 CHINGFORD RD.
LONDON, E.4

SAMPLE TABLET, POST FREE SIXPENCE.

"SAMBOY" HAIR TONIC

is made from the purest materials which combined, provide a genuine tonic, unrivalled in its beneficial effect upon the hair and scalp. It is called "a wonderful grower," and may be used by young and old without harm; is especially good in relieving irritation, and cleansing the scalp. It preserves the colour of the hair.

*To be obtained from maker on sale or return terms,
but is a ready seller. Everyone likes "Samboy."*

"SAMBOY," 22 STRAND, RYDE, I.W.

Nuctone

Regd



What "Users" say:

The number of unsolicited testimonials to the wonderful results obtained with NUCTONE would fill a book.

Here are some of the words used to express their satisfaction—"Delighted," "Excellent," "More than pleased," "Nothing like it," "Just what I wanted," "So easy to apply," etc., etc.

Has Solved the Grey Hair Problem

NUCTONE is the discovery of an eminent Hair Specialist. Restores the colour gradually, permanently, safely. Guaranteed free from any injurious ingredients such as sulphur or lead.

Repeat Orders Assured

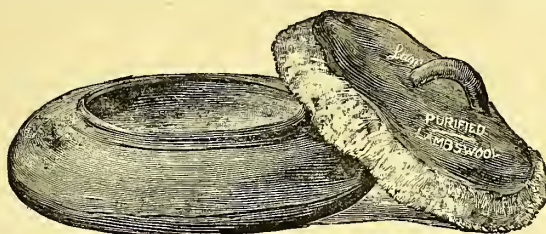
Customers who try NUCTONE continue using it, they are so delighted with the results. This means a steadily increasing business for the Retailer.

Retail Price 6/6 per Bottle
Trade Price 48/- , dozen

Manufactured by—

Stewart, Goodall & Dunlop, Ltd.
4 Dering Street, LONDON, W.1

Stocked by Leading Wholesale Houses.



This Little Powder Puff has the Biggest Sale of any Proprietary Puff in the World.

Are you getting your percentage of these sales?

No stock is complete without them! The public want them and it's up to you to supply them! We specialise in one line, and one line only—but it's a good line! The whole of our energy is concentrated on it and no efforts are spared to give you and your customers entire satisfaction, our perfectly trained staff and progressive organisation are absolutely at your service.

NOTICE.

Beaverpuff, Ltd. wish to thank all the numerous houses who have sent enquiries *re* the new Beaverpuff Model K, and regret the delay in answering some, as these are being dealt with in strict rotation. These Patent Handkerchief Powder Puffs are not yet ready in every detail, but we will in the course of the next day or so have pleasure in sending samples to all those who have written for them.

Ask your usual wholesaler for particulars or send to

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BEAUTY IN A CRATER

Kemolite

Natures' Own Radio-Active Beauty Aid.

Show it with
POWDER & CREAMS
and build up Accumulative Repeat Sales.
TERMS: Selling Price 6/6
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£600 PRIZE CONTEST

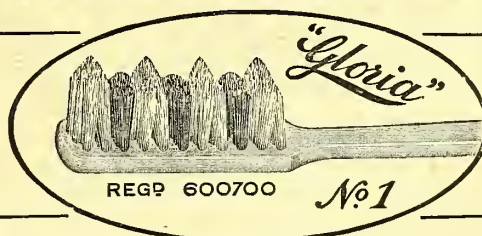
Write for particulars. Chemists' Sales Agents:
For the Midlands and North also Scotland,
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For London and the South including
South Wales and the Eastern Counties,
SELLING SERVICE, LTD.
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and all Wholesalers.

BIDWELLS'



NEW DESIGN

Advantages:

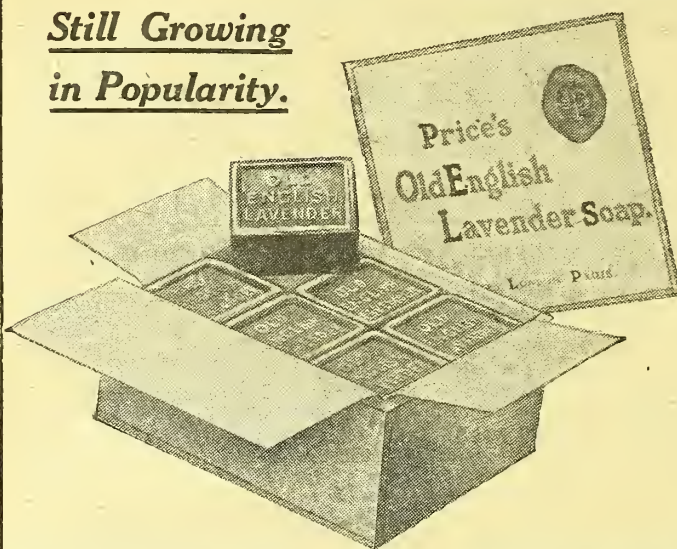
Used up and down on the teeth it cleans in between them, and if pressed down hard, the bristle will not crush. Short knots in extra hard bristle, white, yellow or black. Ventilating holes in back, hole in handle for hanging up. Sterilised and sealed in transparent carton.

WHOLESALE, 17/- doz., Hard 19/- RETAIL, 2/3 ea., Hard 2/6 ea.

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*Still Growing
in Popularity.*



This exceedingly popular Toilet Soap is put up in the three following sizes :—

VISITORS in 12-cake boxes 14/9 per gross.

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In 6-cake boxes 41/3 per gross.
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BATH SIZE 64/- per gross in 6-cake boxes.

All the above are packed in the neat, familiar wooden boxes.

N.B. We have specially reserved for Chemists an uncoloured Old English Lavender Soap, Toilet size, at the same prices as above indicated.

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All sufferers from RHEUMATISM, Sciatica, Gout, Arthritis, Neuritis, Lumbago, etc., should send immediately for full particulars of

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Remarkable results have been achieved and Doctors everywhere are recommending it. "The Lancet" writes—"We have made a trial of the mud on a bad case of FIBROSITIS of the elbow which was proving resistant to treatment by other means, and the result certainly was encouraging."

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Information Bureau for the Pistany (Postyol) Wells, Czechoslovakia.

The Evan Williams

ALWAYS IN GREAT DEMAND.
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PRICKLY SHAMPOO.

A Good Selling Line

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Are you ready to meet the ever increasing demand for Anzora Cream and Anzora Viola? Don't disappoint your customers. Stock them to-day. Trade Terms on request. From all wholesalers.

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*Why you should
recommend*

Gibbs

In the matter of Dental Hygiene the public need guidance. It is difficult for them to discriminate. Your advice is eagerly sought—it is always respected. Very much depends upon it.

The following interesting facts about teeth, contributed by an eminent Dental Surgeon will help you to give the best possible advice to your customers.

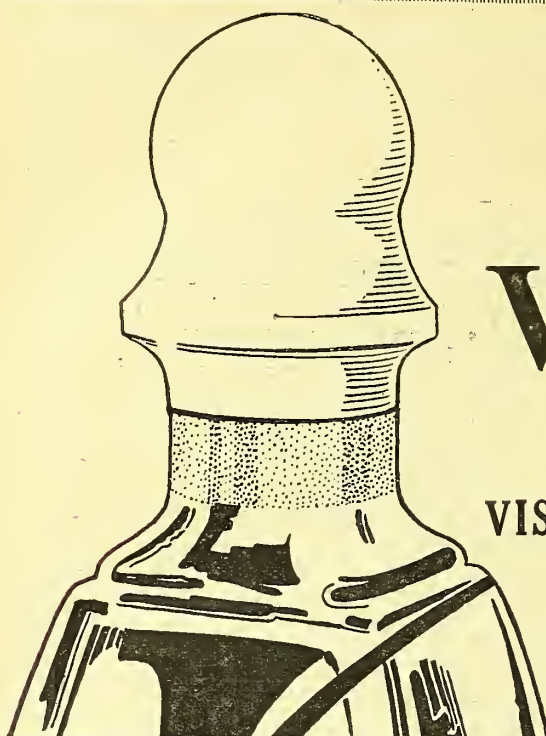
“On normal unmutated teeth the surface of the enamel is divided into main and secondary reflecting planes. These planes are sub-divided into miniature waves and facets which are visible only through a powerful magnifying glass. This formation of tiny waves and facets, set at every conceivable angle, catch, reflect and counter-reflect the light from every direction, radiating various tones of light and colour, ranging from brilliant reflection to soft lustre. It is this infinitely fine crystalline surface that is the first to go under the action of harsh substances or gritty tooth pastes and powders. The larger planes go later, until the enamel is eventually worn through, and the teeth are exposed to decay.”

Gibbs Dentifrice contains no grit. Its polishing agent is of the exact degree of firmness to clean and polish without risk of harm to the facets of the enamel.

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SELF-FIXING
VISCOSE
BOTTLE CAPS**

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HENNA SHAMPOO POWDERS.



No. 4618. 1 dozen on card,
20/- gross.

No. 4618/5. 5 packets in carton,
8/6 dozen cartons.

No. 4618/7. 7 packets in carton,
11/- dozen cartons.

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CHAMOMILE,
CHAMOMILE &
ROSEMARY, PINE.

No. 4747/5.
5 packets in carton,
8/6 dozen cartons.

No. 4747/7.
7 packets in carton,
11/- dozen cartons.

1 dozen on card,
20/- gross.



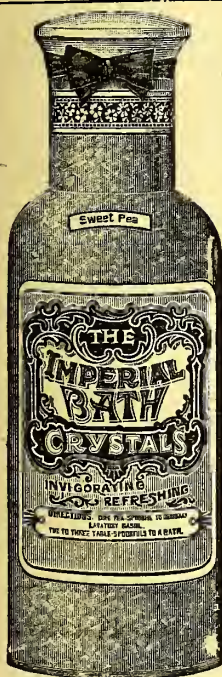
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THE IMPERIAL BATH CRYSTALS FOR THE TOILET AND BATH.

Assorted Perfumes—
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6 oz. size .. 10/- dozen.
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40 oz. size .. 54/- dozen.
Special line (90 oz.)
Glass Stoppered 9/- each.
4 lb. tins .. 4/6 each.
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GIMBER'S EXCELSIOR CREPE BANDAGE

An Elastic Bandage, containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 23, and 33 inches wide. Excelsior Crepe Abdominal Binders—useful after many abdominal operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide. CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Mark on the Wrappers.

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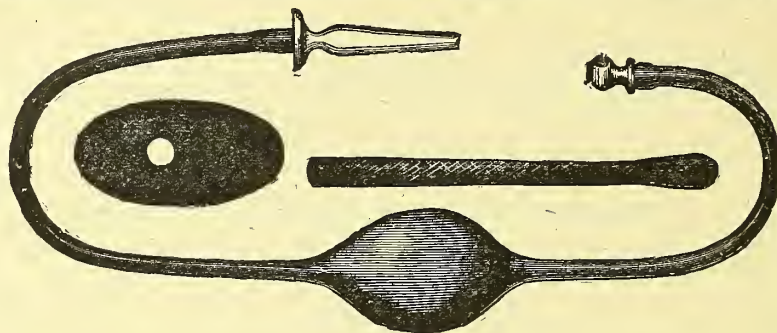
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13 dozen tins at 1/3 each **£9 15 0**

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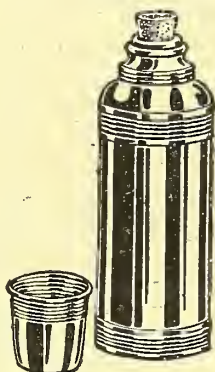
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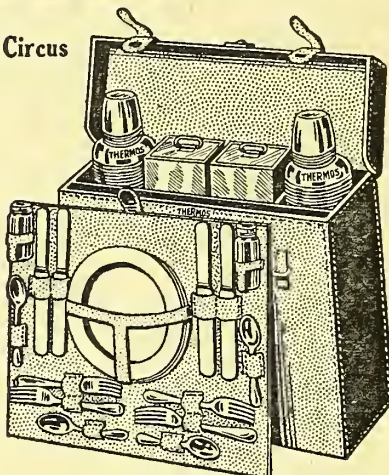
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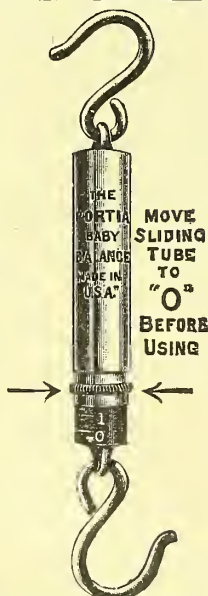
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Also
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10 yards and 5 yards Spools.
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Specially woven to form a natural spiral when wound round the leg. Superior to an elastic stocking as the pressure can be adjusted. In 2, 2½ and 3 yd. lengths.

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Spread on strong brown Holland. Supplied in tins, 6 yards x 8 inches. Rolls, 3 yards & 6 yards. Widths, 8 and 16 inches. Unequalled for reliability. As used regularly by all the leading hospitals.



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Fountain of Health

If you have a
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will pay the fee.
If not, get one,
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Your agree to display
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Vinum Xericum

BUTTS. HOGSHEADS. QR. CASKS.
108 galls. 54 galls. 27 galls.

Grade A. STRENGTH 16.5°—17° Abs. Alc.

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NEW ZEALAND "IMPERIAL BEE."

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| Cases 48 × ½'s Monopots .. | 6/9 per doz. | |
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Quotations for bulk (cases 2/60 lb. tins) all grades,
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There is still time to
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Official Glaxo Distributor
and get the benefit of the



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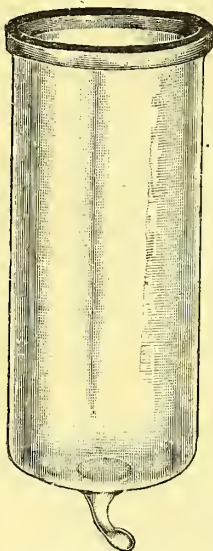
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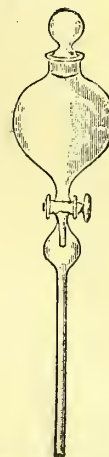
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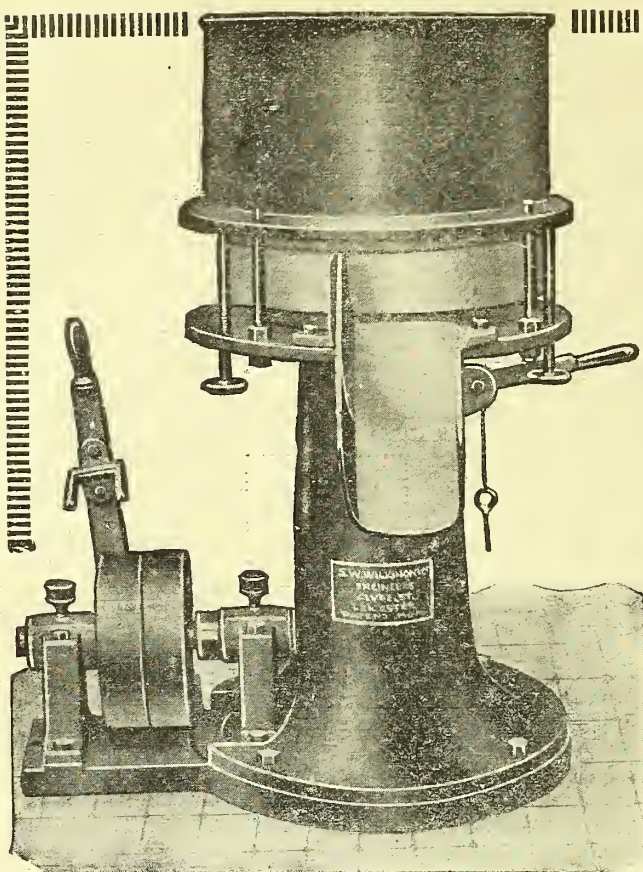
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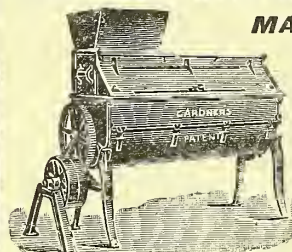
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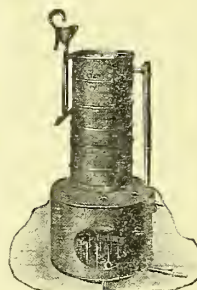
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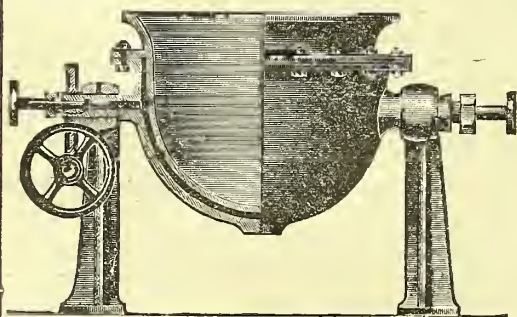
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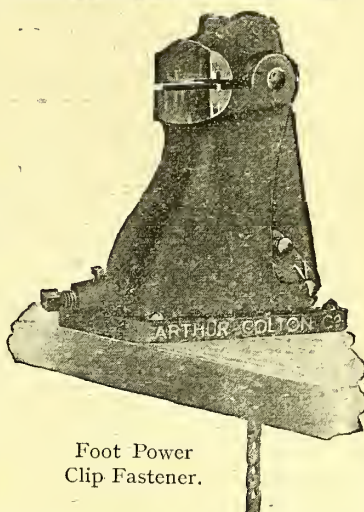
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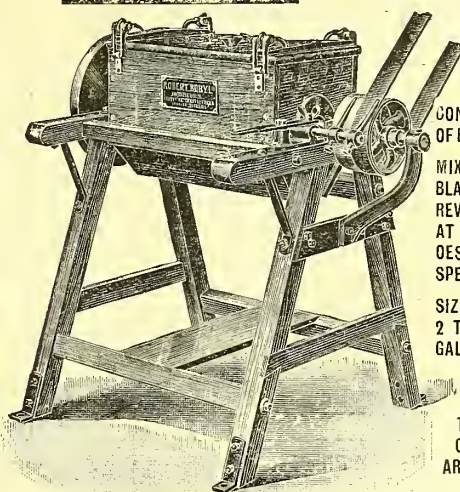
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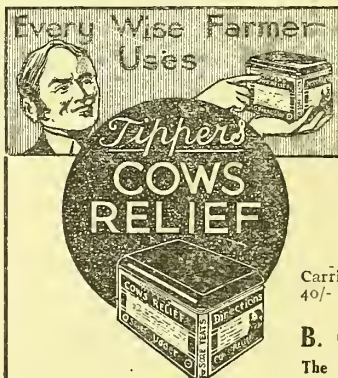
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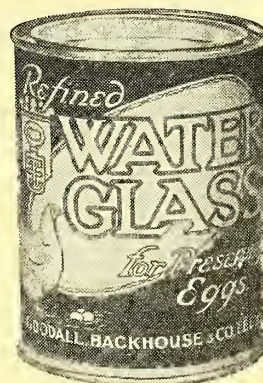
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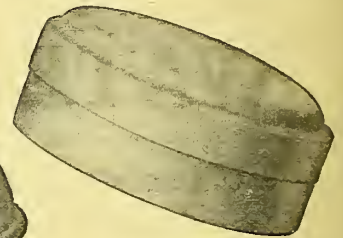
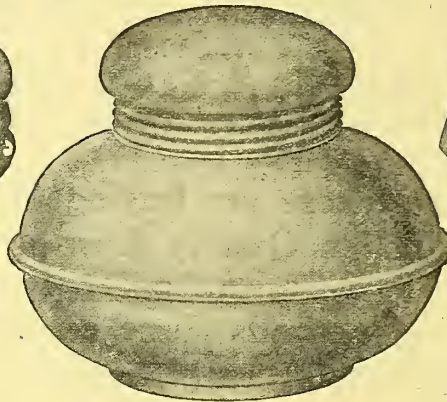


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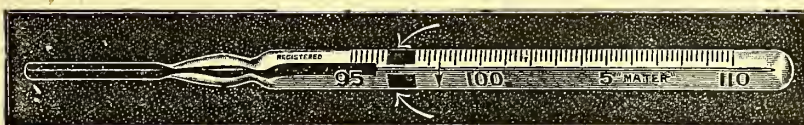
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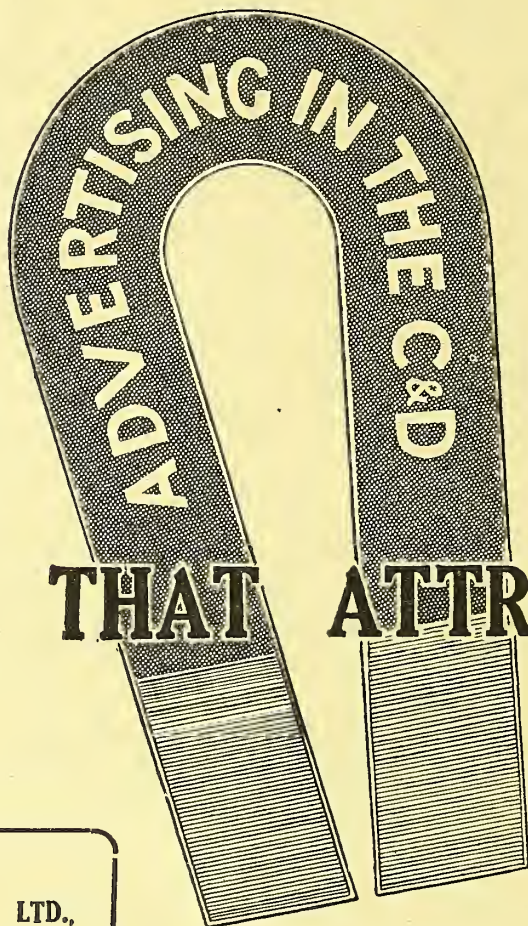
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New Books

Coffignier, Ch.—*Manuel du Peintre*. 6½ in. by 4½ in. Pp. 276. J. B. Baillière et Fils, 19, rue Hautefeuille, Paris. [Deals with the various processes to which pigments are submitted prior to their use as paints, and describes the preparation of paints according to their various uses. Contains a large selection of formulas for paints, and also for other preparations of interest to painters. Several pages are devoted to a description of the materials used for protecting ships' bottoms from incrustation with algae and shells. In this connection it is stated that towards the middle of the XVIIth century this question was made the subject of special investigations in England, with the result that a coating consisting of a mixture of cement, gunpowder and a copper mineral was used as a protective. At the present time it is customary to apply two coats of paint, each fulfilling a definite purpose: the first, which must dry quickly, to prevent rusting, and the second, or anti-fouling, contains a substance which is poisonous to algae and molluscs, such as mercuric chloride, arsenic, copper sulphocyanide, and copper amalgam. The work covers a wide range and contains many valuable hints.]

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

British Empire Exhibition

In his report on the organisation, conduct and administration of the British Empire Exhibition, Sir William Joynson-Hicks, Bt., M.P., Secretary to the Department for Overseas Trade, criticises the manner in which the amusements concession was advertised, but finds no justification for believing that there has been either corruption or malfeasance. With reference to the complaints of the Publicity Committee, it is stated that the earlier publicity arrangements of the Exhibition were unsatisfactory, and for this reason probably the members of the Publicity Committee, for some time, themselves undertook executive work which as an advisory committee they ought never to have had to do. Latterly an appointment of a new and energetic publicity director has been made, and it is from the date of this appointment that the real trouble of the Publicity Committee dates. Such a committee is essential to the proper organisation of the Exhibition. The report continues:—

While the Exhibition must of necessity be a business undertaking, and should be run as such, it is of supreme importance that its Imperial significance should not be allowed to be even a secondary consideration. At the present time probably more than ever before there is an urgent need for the development of Imperial relationships of all kinds, commercial, political and sentimental. This Exhibition, if properly organised, offers an unprecedented opportunity for the development of such relationships, and if it is not going to do so it had better not be held.

It is recommended that there should be no change in the general management of the Exhibition, but that the control over the general management should be strengthened. The Executive Committee itself, as at present constituted with something like 120 members, is quite incapable of exercising any really executive control over the management, and it is suggested that the present Council should meet, say, quarterly instead of monthly, and that its executive powers should be delegated to a standing executive committee consisting of five members. In conclusion, it is pointed out that it may be fatal to the Exhibition if any further trouble arises. The Executive Council, at a meeting held on February 7, passed a resolution dissenting from certain findings in the report, and expressing its confidence in the general manager, Mr. Wintour.

Dental Board

The Registrar of the Dental Board informs us that circulars of inquiry as to the accuracy of their addresses were sent on February 2 to all persons whose names appeared in the printed Dentists Register for 1922 (i.e., all persons registered before the passing of the Dentists Act, 1921), under Section 12 (3) of the Dentists Act, 1878, which is to the following effect:—

The General Registrar may erase from the dentists register the name of a person who has ceased to practise. . . and the General Registrar may send by post to a person registered in the dentists register a notice inquiring whether or not he has ceased to practise, or has changed his residence; and if no answer is returned to the inquiry within six months from the posting thereof it shall be lawful to erase the name of that person from the register.

Any person coming within the above category who does not receive an inquiry in course of post should communicate with the Registrar, 44 Hallam Street, London, W.1, without delay, in order that there may be no risk of the erasure of his name.

British Optical Association's Examinations

It was decided at the recent meeting of the Council of the British Optical Association to make the following concessions regarding the examinations:—

(1) That exemption from Sections I. and III. be allowed in the Intermediate Grade (associate membership) of the Association to candidates who have passed the examination of the Worshipful Company of Spectaclemakers prior to

December 31, 1921, on payment only of the subjective sight-testing fee required for Section II., and further that this concession shall apply also during the year 1924, but only to candidates who passed the Company's examination prior to December 31, 1920, and otherwise this concession to be considered yearly at the first meeting of the Council held each year.

(2) That candidates who are in possession of certain science certificates from approved examining bodies, may be exempt from sitting for Part "A" of Section I., in the Intermediate Grade (associate membership) of the Association, but that there be no reduction of fee for this exemption.

(3) That members of the Association of any grade, of over 10 years' membership, and over the age of 50, shall be eligible for the Fellowship of the Association by passing the practical portions of the examination with exemption from all the written papers of Section III.

The next examinations will be held at the University of London, South Kensington, and at the Imperial College of Science, South Kensington, London, on May 23, 24 and 25; at the College of Technology in Manchester on June 1; and in Scotland during September.

Wine Licence Applications

The following applications for wine off-licences at the local Brewster Sessions have been granted: Mr. W. S. Allwood, chemist and druggist, Leicester; Mr. J. R. de Frates, Pontefract; Mr. T. H. Hanger, chemist and druggist, Leicester; Mr. W. Rowe, chemist and druggist, Leicester; Taylor's Drug Co., Ltd., Colne; Mr. M. R. Turner, chemist and druggist, Tyseley, Birmingham; and the pharmacists whose names appear in a paragraph below.

Licences have been refused to the following applicants: Mr. J. Findlay, chemist and druggist, Northenden, Stockport; Mr. G. H. Hannam, chemist and druggist, Leicester; Mr. E. G. Howell, chemist and druggist, Cardiff; Mr. A. Mason, Cambridge; Mr. T. H. Newton, chemist and druggist, Hull.

At Northampton Licensing Sessions, on February 1, the chairman stated that the justices were desirous of obtaining uniformity in the kinds of licences for wine sold in chemists' shops—that is, that they should be for genuine medicated and proprietary wines. With the assistance of the secretary of the local chemists' association they had obtained this uniformity except in four instances. They hoped that the holders of those four licences would see their way to fall into line with the other licensed chemists. Licences were granted to Mr. F. C. Ashford, chemist and druggist, Far Cotton, and Mr. T. H. de Blois Leach, chemist and druggist, Yardley Gobion. When Mr. Ashford was being questioned by the Rev. E. J. Tongue concerning what Mr. Ashford did when visited by people with ailments, Mr. Williams, representing the applicant, objected, and interposed with the remark that applicant was being asked something that would incriminate himself. He was a chemist, not a doctor. The justices also disallowed a question concerning the proportion of alcohol in medicated wines.

Inquests

At an Accrington inquest, on February 2, on William Ray, warehouseman, Dr. R. T. Towneley said that deceased had suffered from diabetes, and witness prescribed gluten bread and saccharin. The Insurance Committee, however, declined to sanction these preparations on the ground that they constituted food, and were outside the purview of their administration. Witness said that medical benefits included the right of insured persons to proper and sufficient medicine. The coroner said he could not go into that question. That was a matter for another tribunal. The doctor replied that, as the deceased was a working man, diabetic foods were beyond his means. As a panel patient the deceased was entitled to medicine. A verdict of "Death from natural causes" was returned.

An inquest was held on February 3 by the Poplar (London) coroner on the body of Sarah E. Thompson, who, it appeared, had died within half an hour of her admission to Poplar Hospital. Dr. Sandler, house sur-

geon at the hospital, said the deceased woman died of chronic nephritis and hypertrophy of the heart. He was prepared to give a certificate at the time, but asked the relatives for permission to examine the body in order to confirm his diagnosis. On making a *post-mortem* examination, he found a number of hemorrhages in the stomach, suggesting acute gastritis, and he then had the contents of the stomach sent away in two test tubes for analysis, as symptoms of poisoning were indicated. The Coroner: Did you put labels on the tubes?—No, I don't think so. They were taken by messenger. Would you be surprised to hear that one of the two was lost?—Yes. Well, it was lost, but has since been found, more by luck than anything else. How, asked the coroner, could the doctor fill in a certificate of death and say he had attended the deceased woman during her last illness, when he had only seen her half an hour before death? It was Dr. Sandler's duty to have reported the case to him (the coroner) at once. Instead, he obtained permission of relatives to hold a *post-mortem*, and then, upon finding symptoms of poisoning, sent some of the contents of the stomach away for analysis, and this in such a way that a portion was lost. What he had done had been both irregular and wrong. The coroner adjourned the inquiry.

Birmingham

Mr. G. I. Clarke, an Aston manager, committed suicide by taking potassium cyanide.

Direct access to 300,000 volumes at the Birmingham Reference Library, which is to be allowed shortly, will be a boon to students, particularly of pharmacy, desirous of being *au fait* with the most recent literature.

A meeting of the newly-constituted local section of the Institute of Chemists for Birmingham and the Midlands will be held on February 12 at 8 p.m., at the White Horse Hotel, when the rules will be discussed.

Professor W. P. Wynne, F.R.S., who has been nominated to fill the office of President of the Chemical Society (see p. 190), began his distinguished career with a firm of Birmingham chemists under the able guidance of the late Mr. H. Williams Jones, F.C.S.

At the Police Court, on February 5, Raymond Charles Hyde (23) and Colin Gibbins (25) were charged with stealing barometers and various chemicals from W. & J. George, Ltd., scientific apparatus manufacturers, Great Charles Street, Birmingham, and were fined £5 each.

The death of Mr. John William Cotterill, F.I.C., a well-known analytical chemist of the Midlands, occurred on February 6, at the age of fifty-seven. He was well known to pharmacists, and had read papers before the local Association. His father was one of the earliest of analytical chemists of this country.

Liverpool

Lawrences, Great Charlotte Street, have a window effectively illuminating various transparent goods.

Three new pharmacies are being opened in the Waver-tree, Walton and Edgehill divisions of Liverpool.

A local pharmacist has received over 600 replies to his advertisement in the *C. & D.* for a qualified assistant.

Inquiries are being made for a site for a factory in which a new food for infants is to be manufactured.

"I nearly took an order this morning," was the explanation given by a town traveller on Monday when asked why he smiled.

With few exceptions, both wholesalers and retailers report that trade is dull. Health reports are good for the season. A few cases of whooping-cough have been isolated.

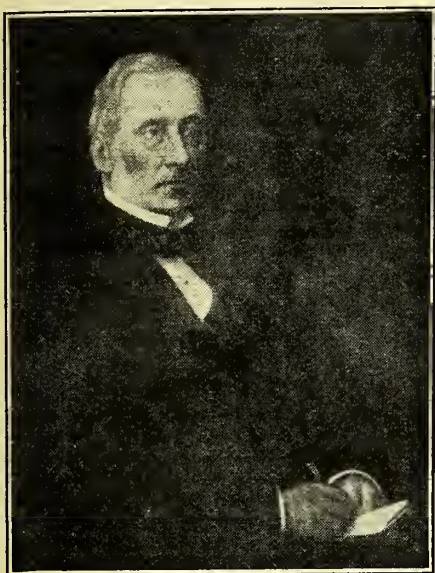
The Liverpool Pharmacists' Club excelled their former fancy dress ball by entertaining over 160 guests at Elliot Street Café, on January 31. Another dance is fixed for March 12.

Hull

Local chemists experienced a greater slackness in trade during the past month than they have for about four years. This is a great contrast to January 1922, when an influenza epidemic was raging.

A verdict of "Suicide while of unsound mind" was returned at the inquest held on February 2 on Jeremiah T. Peill, a well-known local business man. Death was due to hydrocyanic-acid poisoning.

As will be seen from a letter in this issue, the late James Baynes, Ph.C., of whose portrait, recovered in interesting circumstances (*C. & D.*, January 20, p. 74), we have been able to obtain a photograph, was somewhat of a celebrity in his day. Mr. Baynes died on



MR. J. BAYNES, PH.C.

June 9, 1886, aged seventy-four. The following passage from his obituary notice (*C. & D.*, 1., 1886, p. 606) gives an outline of his career:—"In his youth Mr. Baynes was apprenticed to a chemist and druggist at Bradford, whence he removed to Hull, and was engaged as assistant to the late Mr. Hudson in Waterworks Street, to whose business he eventually succeeded about fifty years ago. He was regarded as the father of the drug-trade in Hull. He was one of the founders of the Pharmaceutical Society, and from 1872 to 1876 served on the Council. Mr. Baynes was the first President of the Hull Chemists' Association."

Manchester

Whalley's Drug Stores, Church Street, Newton Heath, has been converted into a limited company.

Stephenson's Drug Stores has been acquired by Mr. D. Backley, M.P.S., Hulme Hall Lane, Miles Platting.

Owing to the danger of patients being infected by germs brought in from outside, the Manchester Eye Hospital has been temporarily closed to visitors.

Taylor's Drug Co., Ltd., have acquired the business at 632 Stockport Road, Longsight, formerly carried on by Mr. H. Taylor, chemist and druggist, as Harding & Co.

Members of the Manchester and Salford Pharmaceutical Associations are looking forward to the lecture by Dr. J. Stanley White on "Vitamines," a subject in which pharmacists are taking a great interest.

The Salford Pharmacists' Association's annual dinner, which is taking place at the Griffin Hotel, Lower Broughton, on February 28, looks like being a great success. Many well-known pharmacists have promised to be present.

Another case of accidental death has occurred within the past few days, a man who lived in Chorlton-on-Medlock having taken butter of antimony in mistake for cough mixture, and dying as the result of his error. Chemists, always anxious for the welfare of their clients, are endeavouring to educate the public to all the risks they run.

All who can arrange to visit the Northern Photographic Exhibition, which opened on February 5 at the Manchester City Art Gallery, should do so. It remains open until March 3, and admission is free. There are on show fine specimens of pictorial photography, and also of natural history and scientific subjects; and a prominent place is given to lantern slides and transparencies.

Mr. W. H. Harrison, 35 Wilbraham Road, Chorlton-cum-Hardy, has a most attractive display in two scenes. One (3,000 B.C.) illustrates an ancient Egyptian feast, showing the temple, articles of diet and camels laden with food, conveying the idea that the ingredients of Ovaltine are of origin as old as the Pyramids. The other scene (1923 A.D.) illustrates a modern house with family gathered round the table. The doctor coming in at the door passes Father Time, who is handing the same food to him.

Sheffield

Trade has been slightly better during the last few weeks.

The payment for the month for Insurance dispensing was £1,253 19s. 7d. The cost of the prescriptions has averaged 2.7d. for ingredients and 5.1d. as dispensing-fee.

The Staniforth Pharmacy, Ltd., have a neat window display of Kkovah Health Salts offering to each purchaser nickel silver spoons of a very dainty design at the nominal price of three for a shilling.

It is reported from Leicester that Mr. J. G. Jackson, jun., B.Sc., gave an interesting lecture on "Wireless Telegraphy and Telephony" before a meeting of local pharmacists and their assistants on January 31.

Mr. R. T. Greenfield, son of Mr. H. H. Greenfield, chemist and druggist, Hunter's Bar Pharmacy, was among the successful candidates at the recent examination in dental mechanics held by the Conjoint Board.

Miscellaneous

ALIENS' RESTRICTION (AMENDMENT) ACT, 1919.—In "The London Gazette" of February 2 it is announced that Mr. H. H. Freeman and Mr. W. H. Upjohn, manufacturing pharmacists, Granville House, Arundel Street, Strand, London, W.C. 2, have been granted permission to use the title Mylet Association.

WHOLESALE DRUGGISTS' CRICKET CHAMPIONSHIP.—Secretaries of cricket clubs connected with the drug-trade are invited to communicate with Mr. R. O. Sibley (The British Drug Houses, Ltd., 16-30 Graham Street, City Road, London, N.1), secretary of the wholesale druggists' cricket league, with a view of their club taking part in the championship for the silver trophy. The clubs entered are about "weak-medium" in strength.

SACCHARIN CASE.—At Bow Street Police Court, London, on February 7, Henry G. Roberts, merchant, Folkestone, and Arthur R. Earle, merchant, Ossington Street, Bayswater, were charged with being concerned together in harbouring 13 lb. of uncustomed saccharin, the treble value of which was £291. There was a further charge against Roberts of harbouring 6 lb. of uncustomed saccharin, of which the treble value was £145 10s. 7½d. Earle was seized with a fit during the proceedings, which were eventually adjourned.

EXPLOSION.—The British Drug Houses, Ltd., report that the hydrogen peroxide plant at their Wharf Road works was severely damaged by an explosion on February 1, owing to the neglect on the part of one of the process hands to carry out one of the standing regulations made for the safe working of this plant. Fortunately, no one was injured, as the chemist in charge detected a warning sign, with the result that the occupants of the building were able to get away in time. The company carries a good stock of their pure hydrogen peroxide, and hopes that the arrangements made for the immediate reconstruction of the plant will result in fresh production before the stock is exhausted.

IMPERIAL INSTITUTE.—The Secretary of State for the Colonies has appointed a Committee to consider and report (1) what functions at present carried on by the Institute are considered essential, and (2) whether these should be continued by the Institute or attached elsewhere, and in this connection to take into account the functions of other research organisations and to report what consequential legislative or other measures will be necessary to carry their recommendations into effect; further, to report on the functions of the Imperial Institute, and to what extent the intentions of the founders and the Royal Charter are being carried out, and to suggest any improvements which they consider financially possible, if they recommend that the Institute shall be carried on its existing basis. The secretary is Mr. E. B. Boyd, of the Colonial Office.

STAFF CONFERENCE.—On February 2 the representatives and sales staff of Fassett & Johnson, Ltd., met in conference at 86 Clerkenwell Road, London, E.C., to meet Mr. Harold F. Cabell, B.Sc., A.I.C., who has recently joined the house, and to discuss future policy with the view of giving still better service to the trade. Opportunity was also afforded to introduce two additional representatives, Mr. A. E. Carter (covering the S.E. Counties) and Mr. F. R. Brewster (Lancashire). After lunching at the Manchester Hotel, a visit was made to the factory at Brunswick Place, where a thorough inspection of stocks and manufacturing processes was made. In the evening the guests assembled at the Trocadero Restaurant, where a delightful banquet was presided over by Mr. L. O. Johnson, governing director, supported by fellow-directors; and a pleasant evening was concluded by a visit to the Coliseum.

POSTER COMPETITION CASE.—At Bow Street Police Court, London, on February 5, two of the partners in the firm of J. Weiner & Co., printers and publishers, Long Acre, W.C., were charged with publishing a proposal for the sale of tickets in an alleged lottery called "The Great Poster Competition." It was stated that the competition consisted of selecting from fifteen specified posters the ten which appealed to the competitor as being the best, and then placing them in order of merit. The genuineness of the competition was not questioned by the prosecution. The defence was that there was an element of skill in the competition sufficient to exclude it from the scope of the Lotteries Act. Among witnesses for the defence were Mr. John Hassell, the editor of the "Advertising World" and the "Advertisers' Weekly," Mr. A. E. Canney (managing director of Virol, Ltd.), and Mr. Paterson (managing director of Carter, Paterson & Co., Ltd.).

IN THE COURTS.—At Bow Street Police Court, London, on February 1, Walter Frank Tatham (42), Balham High Road, S.W., described as a horticulturist, was charged with having attempted to murder the Chief Commissioner of the Metropolitan Police (Brigadier-General Sir William Thomas Francis Horwood), on November 9 last, by means of poison, and, further, with attempting, by similar means, to murder the Hon. Trevor Bigham and Mr. F. L. D. Elliott, two of the Assistant Commissioners of Police, on November 6, at New Scotland Yard. Sir Richard Muir and Mr. William Lewis conducted the case on behalf of the Director of Public Prosecutions, and Mr. Travers Humphreys defended. Evidence of arrest was given by Chief Inspector Helden, who went on to say that in a shed in the garden he found two empty tins labelled "Eureka Weed Killer," and one tin labelled "Chatsworth Weed Killer." There was also a tin, half full, labelled "Winter Wash." The accused was remanded in custody. —At Willesden Police Court, London, on February 6, E. Ponn, a professional "strong man," charged, on remand, with stealing five £1 Treasury notes from B. B. Dutta, chemist and druggist, Brondesbury Road, Kilburn, was discharged. —At Bow Street Police Court, on February 7, George Goodman, seaman, was fined £1 for breaking the shop-window of J. M. Davis & Sons, Ltd., chemists, Coventry Street, W.1, and was ordered to pay £5 damages and 10s. 6d. costs. The money was forthcoming.

Irish News

Brevities

The Sligo Drug Co., Stephen Street and Wine Street, Sligo, has acquired the prescription books of Boyers' Medical Hall.

Mr. Charles McMullen has been appointed analyst to the Kilkeel Guardians at £18 per annum and an extra fee of £1 11s. 6d. for each sample of water analysed for the rural district council.

The expenditure on medicines and medical and surgical appliances in the several dispensary districts of the Newry Board of Guardians for the half-year ended on September 30 was £174 13s. 4d., which was a reduction on the previous half-year.

Solport Brothers, Ltd., 184 to 190 Goswell Road, London, E.C., have appointed Mr. Herbert Roberts, 250 Shankhill Road, Belfast, as their representative in Ireland, in succession to the late Mr. John Frackelton. Mr. Roberts will shortly be opening a show room in Royal Avenue, Belfast.

At an inquest held on February 7 concerning the death of Mrs. Alice Brady, aged thirty-nine, who, it was stated, said to another woman that she had just taken salts of lemon, a verdict was returned of death from syncope, following the taking of a corrosive liquid, deceased being temporarily insane.

At a meeting of the Londonderry Borough magistrates, held on February 6, a resolution was unanimously adopted and ordered to be forwarded to the Home Office for Northern Ireland, requesting the Northern Government to have the Acts bearing on the sale of methylated spirits enforced throughout Northern Ireland.

During the past week a conference between the Irish Fertilising Manufacturers' Association and the chemical workers, members of the Irish Transport Workers' Union, was held, and the question of a reduction of wages was discussed. Certain proposals were made, which will be submitted to a mass meeting of the men.

At Londonderry Police Court, a man named Thomas McLaughlin was charged with alleged embezzlement. Joseph Wellwood, Ph.C., deposed that in November last a man presented to him an account from Mr. Robin, photographer, for £1 5s. Witness paid the amount, and got the receipt. Some time after witness received from Mr. Robin an account for a balance of 5s. He did not pay this. Accused was committed for trial.

Part of the programme of the North Irish Pharmacists' Association for the 1922-23 session was a successful series of first-aid lectures given by Dr. V. G. Fielden. Mr. A. W. Mann, Ph.C., acted as secretary, and the lectures were largely attended by employers and their assistants. At the conclusion of the lectures an examination under the St. John Ambulance Association Regulations was conducted by Dr. W. I. Caldwell, and first-aid certificates awarded to the successful candidates.

Belfast

Mr. J. R. Haslett, of J. and J. Haslett, Ltd., wholesale druggists, North Street, Belfast, has been co-opted a member of the Council of the Belfast Chamber of Commerce.

Mr. J. C. Culbert, M.C.P.S.I., Belfast, was one of the guests of the evening at the annual meeting and dinner of the Larne Chamber of Trade. Mr. Culbert is President of the Chamber of Trade in Belfast.

Conditions in Northern Ireland

The London "Morning Post" of February 6 gave a page to a special report of the "confident outlook" in Northern Ireland. With regard to dyestuffs the article points out that the Free State has announced its intention of departing from the British system of restricting imports and levying duty, and that German dyestuffs may be imported into the Free State without a United Kingdom licence or duty, and with the sole condition that the importer in the Free State gives an undertaking

that the dyes will be used in the manufacture of Free State goods. "If the Free State is able to give effect to this, and is able to import German dyes direct from Hamburg to Dublin, the effect on Northern Ireland will be inconvenient in two respects. The textile manufacturers of the North will be working under an extra burden as compared with the South in regard to their expenditure on dyes; and the guarding of the frontier against smuggling from the South into the North of German products will be a heavy task. In the future (if the Free State Government ever gets to the stage of actually working as an orderly administration) there will arise many problems of the same nature. At present in the United Kingdom the excise duty on spirits reaches the oppressive figure of £3 12s. 6d. per gallon. The effect of this excessive duty is already severely felt in Ireland, where it encourages illicit distillation to such an extent that in some districts it is calculated that the consumption of illicit spirits far exceeds the consumption of duty-paid spirits. It is well known that in the South there is a wish to reduce the spirit duty very drastically, far more drastically than a British Chancellor of the Exchequer could propose. If that intention were carried out the North would be seriously handicapped, and would have a huge task in holding its frontier against smugglers."

Scottish News

Brevities

Mr. Thomas Spence, chemist and druggist, Beu Nevis Pharmacy, Fort William, has purchased the business of Mr. Alexander Spence, chemist and druggist, 43 High Street (West), Leslie, Fife. Mr. T. Spence has also acquired the house adjoining the pharmacy.

The annual competition for the Scottish Chemists' golf trophy, open to all connected with the drug trade in Scotland, will be held over Gleneagles course on May 16. The arrangements this year are being made by the Edinburgh Committee, Mr. James Finlay, 302 Morning-side Road, acting as secretary. Full particulars will be available early in April.

Edinburgh

Mr. John P. Dunn has been appointed as representative in Edinburgh of the Vinolia Co., Ltd., in succession to Mr. R. Barber (*C. & D.*, January 6, p. 3).

Among the exhibitors at the Ideal Homes Exhibition are J. W. Lightbown & Sons, whose stand is devoted to a window display of Grips First-Aid pastilles.

Mr. Alexander Spence, chemist and druggist, Leslie, Fife, has purchased the business of Mr. J. Bisset, jun., chemist and druggist, 28 Newington Road, formerly carried on by the late Mr. J. M. Bannerman, chemist and druggist.

Edinburgh Chemists' Golf Club held a whist-drive in St. Vincent Rooms on January 24. There were over 100 present, and a most successful evening was spent. Mrs. A. J. Clark presented the prizes, and Messrs. Brindle (captain) and Douglas acted as M.C's.

Fife

Mr. W. Jameson, chemist and druggist, Cardenden, has recovered from his illness and has returned to business.

Mr. A. G. Adamson, chemist and druggist, Kirkcaldy, has been elected to the council of Kirkcaldy Golf Club.

Mr. Inkster, who was formerly in charge of the business of Mr. J. Bisset, chemist and druggist, Tayport, has acquired a business in Aberdour.

Provost W. Smart, chemist and druggist, Buckhaven, has been appointed to the committee representing the local authorities which is to confer with the Scottish Board of Health in regard to slum clearances.

Glasgow

Among the papers read at a meeting of the Glasgow Section of the Society of Chemical Industry on February 2 were: "Double Salts," an account of research work carried out by Mr. J. Ferguson, the results of which throw further light on the subject of chemical affinity; "The Strength of Ammonia as a Base," by Professor R. M. Caven; "Some Comparative Experiments on the Dyeing Properties of Lichens," by Professor T. S. Patterson; "The Estimation of Inorganic Impurities in Organic Compounds Soluble with Difficulty in Water, as Sulphuric Acid in Picric Acid," by Professor T. S. Patterson and Mr. K. L. Moudgill, B.A., B.Sc.

A special meeting of Lodge Galen, No. 1,285, was held in the Masonic Hall on January 25 for the purpose of conferring the Mark Ceremony and celebrating the anniversary of the National Bard. There was a large attendance of brethren, presided over by Bro. Thomas MacKinnon, Master. The Lodge having been opened, passed and raised, Bro. MacKinnon handed the mallet to Bro. John Thomson, P.M., No. 510, who took up the duties of Mark Master. He was assisted by Bro. Andrew Robertson, J.W., No. 510, as Conductor, while Bro. MacKinnon, Master of the Lodge, acted as Master Overseer, Bro. J. T. Simpson, Master, No. 955, as Senior Overseer, and Bro. George Mackay, P.M., No. 955, and Secretary, No. 1,285, as Junior Overseer. Thirty brethren were advanced by the Mark Officebearers in a very creditable manner, this being the first occasion on which the Lodge had performed the ceremony since its inception. On the conclusion of the work the festive part of the evening was celebrated, according to custom.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, February 13

Ealing Pharmacists' Association, Eden's Restaurant, High Street, at 8.30 p.m. Meeting.

London (South-East) Chemists' Association, Plough Hall, Plough Hotel, Lewisham. Open meeting. Mr. F. H. Glew on "Radium," with experiments.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 p.m. Evening meeting. R. J. Harvey Gibson, D.Sc., on "Botany and Pharmacy in Classical Times."

Wednesday, February 14

Edinburgh Chemists' Assistants' and Apprentices' Association, 35 York Place, at 8 p.m. Paper on "A Botanical Ramble in Spring" by Mr. J. Rutherford Hill, Ph.C.

Leeds Chemists' Association (Associate Section). Mr. Paul Dobson, Ph.C., on "The Chemistry of the Radio-active Substances."

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 p.m. Mr. Harold Wyatt, J.P., Ph.C., on "Dispensing Notes."

London (Western) Pharmacists' Association, Slaters' Restaurant, 192 Oxford Street, W., at 8.30 p.m. Dr. Crossley-Holland, barrister-at-law, on "Pharmaco-Ethics."

Manchester and Salford Pharmaceutical Associations, Council Chamber, Houldsworth Hall, Deansgate, at 8.30 p.m. Dr. J. Stanley White on "Vitamins."

South Wales and Monmouthshire Pharmacists' Local Associations Federation, Barry Hotel, at 3 p.m. Tea (provided by the Barry Association) at 5.30 p.m.

Thursday, February 15

Glasgow Pharmacy Club. "Pages from the Past." A study in local pharmaceutical organisation by Mr. Anthony McMillan.

Pharmaceutical Society of Great Britain (Bolton Branch), Victoria Hall, Knowsley Street, Bolton, at 8.15 p.m. Dr. J. Stanley White on "Ductless Glands and their uses in Medicine."

Pharmaceutical Society of Great Britain (N.E. London Branch), St. John's Institute, Urswick Road, Hackney, at 7 p.m. Social, whist drive and dance.

Pharmaceutical Society of Great Britain (Leicester Branch), Oriental Hall, Market Place, at 7 p.m. Dinner. Tickets (10s. 6d. each) from the secretary, Mr. J. Barker, Evington Road.

North London Pharmaceutical Association, Beale's Restaurant, Holloway Road, N.7. Social gathering. Whist drive and dance. Tickets (2s. 6d. each) before February 13. Morning dress.

Legal Reports

Wharfage Charges.—The appeal of the defendants in the case of *Bailey v. Hay's Wharf, Ltd.* (*C. & D.*, II., 1922, p. 761), was heard recently by Justices Bailhache and McCardie. The plaintiff's case in the lower Court was that thirty-two drums of calcium chloride belonging to him were carried by the Bruton Shipping Co. and were landed by them at wharves which belonged to the defendants, who declined to release them except on payment of an account owing by the Bruton Shipping Co. The County Court judge held that defendants had no general lien, but gave them credit for a particular lien in respect of the thirty-two drums. Their lordships remitted the case to the Mayor's and City of London Court, giving defendants an opportunity of proving by evidence that the sum claimed for services rendered was due, and that wharfingers had a general lien in similar cases.

Boric Acid Ointment Case.—At Old Street Police Court, London, on February 2, Mr. Michael Cole, chemist and druggist, 253 Kingsland Road, E., was summoned for having sold boric acid ointment deficient in boric acid to the extent of 15.6 per cent. Mr. C. H. Kirby, representing Mr. Cole, said he pleaded "Guilty" to a technical offence. Mr. Cyril Ray, prosecuting, stated that the analyst's certificate showed that the quantity of boric acid present was 8.44 per cent. Mr. C. D. Bartley, barrister, said he appeared for the manufacturers of the ointment. The right amount of boric acid was put in, as was proved by the analyses of other parts of the same consignment. The Magistrate: You mean uneven distribution? Mr. Bartley: Yes. Mr. Ray said that the defendant had not given any notice of warranty. Mr. Kirby explained that Mr. Cole brought the ointment last October: he was then starting business for the first time. The magistrate ordered the payment of 20s., including costs.

Key Industries Act Case.—At Salford, on January 31, Arno Boretius, an officer of a German vessel, was charged with offering for sale a hypodermic syringe upon which key-industry duty had not been paid, and Wilhelm Lohmann, another officer of the same vessel, was charged with concealing fifteen of the instruments with intent to evade the payment of duty. It was explained by a preventive officer that these syringes were scheduled by the Board of Trade as liable to an *ad valorem* duty of 33½ per cent: the syringes were worth 7s. 6d. each, but with the duty added their value was 10s. each. Boretius said the syringe he offered for sale was given to him, and he had no idea that it was liable to duty. Lohmann's defence was that the ship was boarded by Customs officers at Liverpool, but they did not search his cabin. The syringes could be seen in his bunk. Boretius was ordered to pay 30s., being treble the value and duty of one syringe, and Lohmann was fined £22 10s., or in default fifty-one days' imprisonment.

A Soap Dispute.—In the Mayor's and City of London Court, on February 1, Herbert N. Holder, trading as Holder & Son, 46 Cannon Street, E.C.4, sued John Baird & Co., merchants, 16 Water Lane, for £6 2s. 6d. for 5 cwt. of yellow bar soap at 24s. 6d. per cwt., carriage paid Cardiff. The defendants had paid £4 7s. 6d. into Court. Mr. Young, their sales manager, said that the soap sent was not according to sample. The plaintiff said he supplied the soap according to sample. The order was directed to the Kleenit Co., with which he used to be associated. Mr. Young further stated that the plaintiff had supplied him with a ton of Kleenit soap, which he (defendant) resold to a Cardiff customer. Then the customer ordered another 5 cwt., but the soap sent that time by the plaintiff was not Kleenit soap and was inferior. This soap came from Green's. Judge Shewell Cooper thought the evidence on both sides was rather unsatisfactory, and not complete. The soap supplied was not according to sample. Plaintiff would have the £4 7s. 6d. paid into Court, but defendant would have the costs after the payment.

Salicylic Acid as a Preservative.—At Eastbourne Town Hall, on February 5, the Corporation authorities prosecuted a local trader, under Sections 3 and 6 of the Sale of Food and Drugs Act, 1875, for having sold non-alcoholic orange wine containing 1.56 gr. of salicylic acid per pint. The public analyst and the medical officer of health were called, and gave evidence as to the analysis and the alleged harmful nature of salicylic acid. Mr. Walter Frampton (instructed by Neve, Beck & Co.) submitted that the prosecution had failed to prove that salicylic acid was injurious, and the Bench agreed that he had no case to answer under Section 3. Mr. Frampton then urged that as salicylic acid was absolutely necessary to preserve the wine when alcohol was absent, and as it was part of the manufacturers' recognised formula, there was no adulteration and no prejudice to the purchasers. The Bench agreed, and dismissed the summons. Mr. Frampton said he had brought three witnesses from London at considerable expense, namely, Mr. Ernest J. Parry, B.Sc., F.I.C., Dr. F. L. Teed, public analyst for the City of London, and Dr. Panton (London Hospital), in order to prove the harmless nature of the preservative, and he therefore applied for costs. The Bench granted nominal costs of £5 5s. against the prosecuting authority.

Dangerous Drugs Act Case.—At Aberdeen, on February 5, Mr. P. D. Milne, chemist and druggist, Market Street, was charged with supplying to a local practitioner on seventeen occasions between September 24, 1921, and March 5, 1922, quantities of "dangerous" drugs (on prescription) which did not comply with the Regulations in that they did not set forth the address of the doctor and did not specify the names and addresses of the persons for whose use the prescriptions were given. The amount of drugs supplied on these occasions was 2,066 gr. of morphine and 19 gr. of cocaine. He was further charged with having on five occasions between September 24, 1921, and April 6, 1922, similarly supplied to the doctor 590 gr. of morphine and 5 gr. of cocaine. The doctor referred to had already been sentenced in connection with the matter. Mr. Milne did not appear in court, owing to illness, but a plea of "Guilty" was tendered by his advocate, who said there was nothing to indicate to the accused that he was doing anything wrong in supplying to the medical man, as he was unaware the drugs were being used for personal purposes. The doctor would have got them from wholesale firms. The medical man was entitled to get as much as he wished of that class of stuff from the manufacturer. It was a technical breach of the Act. The fiscal said that no medical man was allowed under the Regulations to issue a prescription for "dangerous" drugs to himself. A fine of £10 was imposed.

Lime Water Case.—At Old Street Police Court, London, on February 6, the hearing of the case in which Mr. Cyril Thomas Hines, Ph.C., was summoned for selling at 86 High Street, Whitechapel, E., lime water containing 0.00024 per cent. of lead (*C. & D.*, January 23, p. 42) was concluded. The certificate of analysis of the sample sent to Somerset House was put in, and showed 1.2 parts of lead per million. Mr. H. Glyn-Jones, defending, said he had subpoenaed the Government analyst and was going to suggest that he was a neutral witness, and he was going to risk anything he might say. Mr. Andrew More gave evidence to the effect that he was a member of the staff of Government chemists, and that the sort of vessel he used in his laboratory in working the ordinary qualitative test depended on what he was looking for. Mr. Glyn-Jones said that was a somewhat unusual case: he was instructed that no similar case was known. It was a case in which it was a little harsh for the authorities to have taken proceedings. He understood that Mr. Hines got no warning, and it came as quite a surprise to him. If his worship was satisfied that the sale was to the prejudice of the purchaser, it was no use calling Mr. Hines to prove, as he could, that he bought from the best houses in the trade. He (counsel) did not think the prosecution had made out their case. That quantity of lead, even assuming it was as the prosecution said, was very minute, $\frac{1}{16}$ gr. in every pint, and he suggested that, when there

was an intention to bring proceedings of this nature, the authorities should take elaborate precautions to see that the lead could not have got into the solutions purchased after being supplied by the vendor; and precautions were not taken. An ordinary glass bottle was used; that bottle might have contained anything, and Mr. Hawley, in cross-examination, admitted that it might have contained natural mineral water. As to the bottles themselves, it was perfectly true that Somerset House had found no lead in the bottle; but, if he remembered rightly, the evidence of Mr. Hawley was that the quantity in bottles varied. He said also that water, and especially an alkaline solution, would take up lead. That was a possibility against which the authorities ought to guard. He ventured to suggest that there was no absolute proof that the lime water, when sold, contained the lead it was said to have contained. He submitted the prosecution had not in fact proved that the lime water, when tested by the tests that the B.P. intended, had given a characteristic reaction for lead. Those were the two main points upon which he relied. Dr. Stone was then called as a witness. He said he had had some experience of the consumption of lime water by infants. Mr. Glyn-Jones: We had medical evidence that this quantity of lead would cause derangement in a short time. Can you comment on that statement?—I don't agree with that statement at all. It is said that some of it, of this lead, might be excreted. Can you give the magistrate information of the question?—The opinion is not mine but that of the authorities; by far the greater part would have been excreted, not absorbed. Mr. Glyn-Jones: Dr. Thomas said the chief cause of danger was that this lime water was given in milk to babies. The witness replied that the fact that it was given in milk would be a tremendous safeguard against lead poisoning. Mr. Young: Are you of opinion that lime water containing an appreciable amount of lead is not harmful?—No. The magistrate (Mr. Clarke Hall) said that it was, of course, a difficult case to decide, as every case must be that depended on experiments involving such accuracy. It would be impossible to make any experiment that was not open to criticism from the scientific point of view. Counsel had suggested things in which the B.P. had not been followed in every particular. He (the magistrate) had asked Mr. Hawley a question to which he replied that he had tested thousands of samples of water in bottles and never found traces of lead. He felt bound to think, regarding the first point, that the suggestion on the part of the defence did not meet the case or explain the quantity of lead if it were in the bottle. Secondly, as to the nature of the tests, it was possible Mr. Hawley might have made other tests and made tests more directly in conformity with those laid down in the B.P.; but, at the same time, he was an analyst of experience and was not bound by all the details of the B.P., and if he came there and showed that he was satisfied that the test he adopted was reliable, he was entitled to arrive at that conclusion. As he (the magistrate) gathered, the real question was whether there was any appreciable quantity of lead in the lime water: on that point both analysts were agreed. The third point was, assuming there was that quantity it was in fact not prejudicial to the purchaser, because of being so small that any child consuming it for six months could not be injured. Although he (the magistrate) was not prepared to go so far as to say he was satisfied that the consequences would be as disastrous as Dr. Thomas feared, he had the evidence of two medical and scientific men that the presence of an appreciable quantity of lead was injurious to a child. In those circumstances he was bound to come to the conclusion that the prosecution had made out their case. That was not a case of defendant attempting to put money in his pockets by foisting an inferior article on the public. There was no moral guilt whatever attaching to the defendant, and he (the magistrate) did not think it would be fair to proceed to a conviction against him. Therefore the fairest way was to order him to pay £5 5s. costs, and the summons would be dismissed.

NEW premises are being erected for R. Parkinson & Sons, manufacturing chemists, Burnley.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

CAINE'S CHEMISTS, LTD. (P.C.).—Capital, £500. Objects: To carry on the business of chemists, druggists, patent medicine vendors and proprietors, stationers, dealers in photographic goods, opticians, etc. The first directors are:—J. C. Caine and G. G. Hodgson. R.O., New Chester Road, Bromborough.

HILLS' PHARMACY, LTD. (P.C.).—Capital, £100. Objects: To take over the business of a manufacturing and retail chemist carried on by H. E. Hill, at 147 Well Street, South Hackney, as "Hills' Pharmacy." The first directors are: H. E. and Mrs. E. J. Hill. R.O.: 147 Well Street, South Hackney, London, E. 9.

PENNEY & Co., LTD. (P.C.).—Capital, £1,500. Objects: To adopt an agreement with H. A. Penney and R. H. Hawdon and to carry on the business of manufacturers of and dealers in drugs and chemicals, etc. The first directors are: H. A. Penney, L. Bell, W. H. Bolton, and J. A. Norris. R.O.: 19 Ludgate Hill, London, E.C.

WELSH DRUG HOUSES, LTD. (P.C.).—Capital, £500. Objects: To carry on the business of wholesale and retail chemists, druggists and drysalters, etc. The first directors are: P. and E. W. James, "Tanyrallt," High Street, Mountain Ash; and A. and S. M. Harper, 50 Oxford Street, Mountain Ash. R.O.: 56-8 Oxford Street, Mountain Ash.

HYDROME, LTD. (P.C.).—Capital, £3,000. Objects: To carry on the business of oil and colourmen, manufacturers of and dealers in oil and water paints, pigments and varnishes, druggists, perfumers, drysalters, manufacturing chemists, etc. The first directors are:—J. S. Marshall and W. H. Wagstaff. R.O., Capel House, 54 New Broad Street, London, E.C.

HUBERT HUGHES & Co., LTD. (P.C.).—Capital, £500. Objects: To carry on the business of manufacturers of and dealers in chemicals and chemical substances and the products and by-products thereof, all kinds of drugs and pharmaceutical, chemical and surgical materials and appliances, etc. The first directors are: H. Hughes, O. J. Rees, and G. Powell. R.O.: 11 Llangyfelach Road, Brynhyfryd, Swansea.

A. J. SARSON, LTD. (P.C.).—Capital, £500. Objects: To adopt an agreement with G. H. Russell for the acquisition of the business carried on by him at 33 High Road, Willesden Green, N.W., and to carry on the business of chemists, manufacturers and/or dealers in photographic materials; opticians, etc. The first directors are:—G. H. Russell, E. Blasson, and J. W. Smith. R.O., 33 High Road, Willesden Green, London, N.W.

W. J. BAXTER & Co., LTD.—The creditors of this company were called together recently, when a statement of affairs was presented which showed ranking liabilities of £8,150 11s. 2d., all of which were due to unsecured trade creditors. The assets were estimated to realise £23,431 6s. 6d., from which had to be deducted £20,833 10s. 7d., due on debentures, and £436 13s. 1d. for preferential claims. The assets consisted of: Cash in hand, £300 5s. 3d.; stock-in-trade at cost or market prices £9,596 0s. 3d.; motor van, etc., £378; book debts (expected to produce), £7,900; premises at Church Street, Coleraine, £5,247 1s.; and shares in Agricultural Society, £10. The debentures were held by the bank. There had been debentures issued for £30,000, but the total amount due to the bank was only £20,833 10s. 7d. It was reported that the company was registered in 1919 with a nominal capital of £11,500. During the first year of its existence the company carried on business at a profit of £178, but in the succeeding twelve months there was a net loss of £6,965. In the third year there was a net loss on the trading of £4,280. In answer to a question it was stated that the company lost a substantial amount as the result of

dealing in sugar, while it had also suffered through the fall in the price of goods generally. The creditors passed a resolution confirming the appointment of Mr. H. B. Brandon as liquidator, and a committee of the principal creditors was also appointed. The following are among the creditors:—Lever Bros., Ltd., £120; Colman & Co., Ltd., £114; Anglo-American Oil Co., Ltd., £110; Armour & Co., Ltd., £105; Grattan & Co., Ltd., £76; Stephen Smith & Co., Ltd., £65; F. Newbery & Sons, Ltd., £55; Brunner, Mond & Co., Ltd., £52; Thomas Keating, £47; J. and J. Haslett, Ltd., £33; Fasset & Johnston, Ltd., £30; Potter & Clarke, Ltd., £30; Johnson Bros., £29; W. Edge & Son, £28; Goodall, Backhouse & Co., Ltd., £24; Thomas McMullan & Co., £21; Scott & Turner, Ltd., £20; North of Ireland Chemical Co., £19; Erasmic Co., Ltd., Warrington, £19; E. Griffiths Hughes, Ltd., £18; Kaye Bros., £17; D. & W. Gibbs, Ltd., £16; Cresswell Bros., £13; International Laboratories, £13; Allen & Hanburys, Ltd., London, £13; Evans Sons Lescher & Webb, Ltd., £12; Lorrimer & Marshall, Ltd., £12; Prices' Patent Candle Co., Ltd., £12; Sutcliffe & Bingham, Ltd., £12; J. C. & J. Field, Ltd., £11; Thomas Harley, £10.

INECTO, LTD.—The report of the Official Receiver and liquidator of this company has been issued to the creditors and contributories. The accounts filed under the liquidation show total liabilities £28,848 (unsecured £9,794), assets valued at £7,741, a deficiency of £6,012 in assets to meet liabilities, and a total deficiency of £15,014 with regard to contributories. The Official Receiver reports that the company was formed in August 1918 with a nominal capital of £20,000 to acquire and take over as a going concern the business then carried on under the style of Inecto, Ltd. The first directors were P. W. Ducker, P. J. Ducker, M. B. Ducker and Jessica Saunders, but Mr. P. J. Ducker and Mr. M. B. Ducker had left the board before the winding-up order was made. Mr. P. W. Ducker was appointed governing director at a remuneration of £500 per annum. The old company of Inecto, Ltd., was formed in March 1911, with a nominal capital of £1,000, practically the whole of which was held by Mr. P. W. Ducker at the date of the sale to the new company. The old company went into voluntary liquidation in August 1918, with Mr. P. W. Ducker as the liquidator. The new company took over the assets of the old company, including the secret process or recipe for the manufacture of Inecto; goodwill and tenancy of the premises. In the accounts the goodwill was shown at £900, and the trade-marks at £29 10s. The 1,000 shares were allotted on August 29, 1918, 998 being allotted to Mr. P. W. Ducker, and on the same day a further 8,000 shares were allotted to him for cash. The company acquired a lease of 9 Gees Court, Oxford Street, W., at a rent of £120 to £150 per annum, and these premises were used as a factory. Debentures for £1,500 were issued to Mr. P. W. Ducker in April 1919 as security for money advanced to the company, but £1,000 was repaid on September 24, 1921. On October 18, 1920, the company acquired 2,000 £1 shares in Phyllis Earle, Ltd., beauty specialists. In February and August 1921 4,500 further shares were taken by the company. In September 1921 Phyllis Earle, Ltd., took over the lease of 15A North Audley Street, and purchased for £400 the furniture, fittings and fixtures. A few days later the company sold to Mr. M. B. Ducker for £500 its interest in Inecto, Incorporated, New York, and also for £200 its interest in the goodwill of the sale of the preparations and the trade-marks. The trading accounts showed a net loss of £2,543 for the year ended March 31, 1919, and a net profit of £7,860 for the following year, subject, however, to income-tax and E.P.D. A dividend absorbing £630 was paid to Mr. P. W. Ducker the day before the voluntary liquidation was resolved upon. At the date of the voluntary liquidation several actions were pending against the company in respect of damages by use of Inecto. The voluntary liquidator sold the lease of 9 Gees Court, with the stock there, for £500, and collected £685 in respect of cash and bank balance and book debts. He has handed over a balance of £950, after deducting sundry small disbursements, and £200 solicitor's costs.

Festivities

Smoking Concert at Halifax

THE social section of the Halifax Chemists' Association held a smoking concert at the Old Cock Hotel on January 31. Mr. P. W. Swire (President) occupied the chair, and the evening's programme showed much talent among chemists, their assistants and apprentices. Gramophone selections, the instrument and records being lent by Mr. F. Stoddart, were appreciated, as were also microscopic exhibitions by Mr. C. Fielding. Others contributing to the enjoyment were Messrs. Soar, Irvine Smith, P. W. Swire, J. T. Murray, Greenwood, Booth, Priestley, and Dunn. Messrs. Beton, Carter and Morton gave an amusing sketch, and Mr. T. Wilson provided a clever conjuring entertainment.

School of Pharmacy Dinner

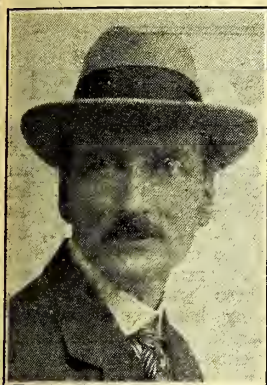
THE annual dinner of the Students' Association of the School of Pharmacy of the Pharmaceutical Society was held at the Hôtel Great Central, London, on February 7, Mr. R. R. Bennett, President of the Association, in the chair. There was a large attendance, including Messrs. J. O. Braithwaite, H. Finnemore, A. Francis, C. W. Hampshire, F. G. Hines, G. Jones, E. W. Lucas, H. Martin, G. A. Mallinson, W. B. Nelson, E. A. Umney, and H. Webb. The proposing of the toast, "The Pharmaceutical Society," was entrusted to Mr. E. G. Hodge, this year's senior Bell scholar, who summarised the founding and objects of the Society and the admirable way in which the latter had been carried out. In conclusion, he referred to the loyalty of the students, that of the present students, who were eagerly awaiting the end of the session that they might become members, being typical. Mr. Neathercoat, President of the Society, in his reply, complimented the proposer on his speech, and said he was delighted with the news—he had never known such a number ready to part with their subscriptions with such pleasure. "It is a good many years ago"—(laughter)—he continued, but found his hearers were already informed on the subject. The Society takes great interest in the school, and has tried to provide a model training—equipped it with the best apparatus—(laughter)—endowed it with professors second to none—(cheers)—and, as a result, looks to each generation to do better than the one preceding, and to keep up the traditions. In proposing "The School of Pharmacy," which was accorded musical honours, Mr. F. W. Gamble, Ph.C., protested, particularly on behalf of future proposers, that the President had covered the ground of this toast and the reply. Present students, he said, had so many opportunities that the examination was but an incident. The traditions of the school were elusive and intangible, but a force which made itself felt in many ways. In conclusion, he eulogised Professor Greenish and his work for the School. One of the secrets of the Professor's perennial freshness was, he believed, the succession of devil-may-care students. Replying, Professor Greenish remarked that he was in an awkward position—he had to say what he had to say without saying it, but if he was asked if there was ever a better lot of students than last year he would reply: "Never." A similar remark would apply in answer to the same question regarding this year's students, and, again, to those of next year. "I wonder sometimes," he said, "if students appreciate the changes which, under the guidance of the Council, have taken place in the last eighty years," and then described the setting up and various changes that had occurred in the School. Regarding the future, there would be a session for Part I. of the examination (an excellent step), another session for Part II., and a third for the Major. Looking farther into the future, students should be able to take a science degree at the University of London, and he hoped that this will shortly be an accomplished fact. Mr. Linstead, in a witty speech, proposed "The Chairman," which was also accorded musical honours. The Association, he declared, should congratulate itself on having Mr. Bennett as chairman, and outlined some of his numerous and varied activities. Mr. Bennett thought the traditions were more glowing than ever. The Association also was more active to-day, and he recalled the days when there was no hockey or tennis.

The Chemists' Register, 1923

Some of its Curiosities and Anomalies

By W. Maskew, Ph.C.

SEVENTEEN years ago, under the above title, I contributed an article to the *C. & D.*, and circumstances went to show that many pharmacists found amusement in my digest of the 15,948 names recorded in the Register of 1906.



MR. W. MASKEW, PH.C.

The 1923 issue has just made its appearance, and I note certain changes. The scarlet cover has given place to one of a sombre *Greenish* hue, which is still emblazoned in gold by the Royal arms and the impressive words, "By Authority." The volume is 50 per cent. more ponderous; the cost is increased from a crown to a guinea, and its pages number 419 against 324. Certain "Orders in Council" have been added to ensure a code of integrity, but in reality they amount to a curtailment of the few privileges which qualification

formerly bestowed. The words "Major and Minor" no longer head the respective columns on each page of registration numbers. Asterisks are no longer placed against the names of persons who have not communicated with the registrar. Government economy is no doubt responsible for the omission of a page which once explained the distribution of 1,140 copies to public offices. Mr. Charles Truman Cleave, Chudleigh, Devon, has the distinction of being the father of pharmacists; his certificate as a pharmaceutical chemist is No. 281, dated July 19, 1855. The new Register includes 19,193 names. Let us examine some of its curiosities.

I find that chemists and druggists are honoured by having twenty-seven *Kings*, exclusive of a *Julius Caesar* and two other *Caesars*. There are no *Queens*, nor is there a *Kingdom*, but two other *Royal* personages are mentioned. It also states that three can *Rule*. Among the host of other dignitaries there is one *Herald* to proclaim their coming. The list includes five *Princes*, four *Dukes*, one *Earl*, five *Barons*, nine *Lords*, twenty-three *Knights*, four *Squires*, one *Provost*, two *Mayors*, five *Judges*, forty-seven *Marshalls*, and seven *Stewards*: when these are formed in procession there is one *Bannerman* to carry two *Banners*.

The musical section is inadequate, as we find one *Player* and two *Singers*. We get an idea of the orchestra, which could include six *Pipers*, eight *Hornes*, and one *Fife*. If sufficient jazz effect was not produced there is a possibility of introducing two *Pattalos*, one *Cocuzzi*, one *Cugnioni*, and one *Vergette*. I regret there is but one *Chant* and two *Dances* that the band can play. No less than fifteen *Balls* have been held; and on fancy-dress occasions one was *Cleverly* conceived, one was *Dainty*, one *Type* represented a *Valentine*, another wore two *Wings* and a *Pinchbeck* ornament, another used *Chalk*, and many went as they were, the invitations stating that a person present *Will Maskew*. Two *Cheers* were given, and one used *Dams*.

When chemists hold a banquet thirty-seven *Cooks* and twenty *Butlers* can officiate, but we are told that four *Guests* only are possible. There is a variety of dishes; the menu suggested is three portions *Bacox*, one *Haggis*, one *Feale*, one *Pigg*, one *Rump*, two *Brawn*, and six *Curries*. In addition, there are two *Pyes*, both of which are *Gammie*, one *Lambshhead* stewed with one *Onyon*, three portions of *Rice*, and three *Jellys*. There are three moulds for the *Jellys*, two of which are *Agar*. Condiments play a part, as we find four *Salts* and two *Peppers*. When we sum up the drink question we learn

that five prefer *Beer*, seven *Porter*, three *Perry*, and seven *Water*. Two always *Drinkwater*, and one has *Emms*. These useful liquids are kept in nine *Potts*, and handed round in three *Glasses*.

How chemists are clothed is a curious matter: only one *Dresser* is available. Two have *Coats*, one is *Close* fitting, but three have *Cuffs*. Another is in *Cotton*, one in *Silk*, and one in *Wools*. Five wear *Woolley* and one a *Woollen* garment. There is now a *Boot* to wear, and this is made of *Leather*. Of *Hues* one predominates. This must be *Brown*, as there are 102 varieties. Then there are fifty-eight *Greens*, two *Fawns*, two *Greys*, and fourteen *Blacks*. Four are *Blackmen*, and one is a *Redman*.

The religious life of the chemist is well cared for, and though there is but one *Parish* it must be very large, as it contains eight *Churches*—with four *Peels* of fifty *Bells*—and a *Chappell*. The officiating clergy are numerous, for we count eight *Bishops* (two with *Crozieres*), twelve *Deans*, two *Priests*, seven *Cannons*, five *Deacons*, four *Vickers*, and fifteen other *Parsons*. We also read of three *Popes*, seven *Abbotts*, one *Prior*, eight *Monks*, two *Curés*, and two *Nuns*. The housing problem presents itself, as there is no *Abbey* and only one *Monkhouse*. Many of our *confrères* appear to have direct association with Biblical history. The family of *Adams* figures forty-three times in the Register, and it contains also four *Edens*. There is also one *Cain*, three *Abels*, seven *Abrahams*, three *Moseses*, nine *Dagiels*, three *Samuels*, one *Samson*, three *Amoses*, three *Sauls*, two *Herrods*, four *Dauids*, four *Solomons*, one *Job*, five *Isaacs*, and one *Israel*. We have also prototypes of the Apostles, as there are four *Mathews*, five *Marks*, two *Lukes*, and seventeen *Johns*. Further search reveals 110 doubting *Thomases*.

Many chemists are connected by name with other trades; for example, six *Carpenters*, eight *Butchers*, three *Brewers*, three *Tinkers*, six *Sadlers*, thirty-one *Masons*, two hundred and forty-five *Smiths*, forty-six *Turners*, thirty *Millers*, three *Weavers*, six *Dyers*, two *Plummers*, six *Drapers*, three *Thatchers*, eight *Farmers*, four *Woodmans*, and two *Leadbeaters*. There is also a representative *Goldsmith*, *Stainer*, *Plowright*, and *Ironmonger*. Whether trade is good or otherwise we are not told, except that two have a *Fortune*, one has a *Pile*, three are *Rich*. Three *Purses* contain two *Bradburys*, five *Pennys*, three *Farthings*, two *Dollars*, five *Marks*, and three *Franks*. Only one is in *Want*, and cheap physic is general, as one chemist alone is described as *Dear*.

Temperaments in the drug trade vary, as thirteen are *Cross*, four *Wild*, one *Reckless*, one *Rough*, and one *Tame*. Another is classified as *Witty*, and one is *Pretty*, while two are described as *Perfect*. No less than six are *Keen*, twenty-two *Sharp*, ten *Hardy*, four *Sturdy*, one *Fitt*, one *Delicate*, and two *Strong*. Two come under the category of *Meek*, and three are *Moody*. One is *Albright*, another has always *Feltwell*, and yet again we find one with *Ricketts*. Three more are *Good*, three are *Goodfellows*, and there is a *Goodson*. Longevity in the chemist's calling is rare, as is shown by statistics, which state that for one *Old* there are forty-five *Youngs*. We can include here a *Youngman* and a *Younghusband*. One pharmacist is a *Batchelor*, and another is *Amiss*. There are four *Boys* who amuse themselves with two *Toys* and share a bit of *Candy*. Their good behaviour is assured by four *Ushers* and three *Dons*, who are possessed of four *Birches* and a *Cane*.

Chemists have ups and downs in life like the rest of humanity, for as we turn over twelve *Pages* or so we read that five are in *Pain*, one *Smiles*, one enjoys *Bliss*, three are *Love* itself, two are *Lovely*, and one is *Loveless*. Four are described as *Darlings*, one is a *Dollie*, three are *Jolly*, one is filled with *Joye*, and two are of the *Humble* kind. We can also trace twelve *Long*, nine *Short*, two *Biggs*, seven *Little*, five *Stout*, and one *Lean*.

Physiologically considered, there are two *Freakes*, possessing one *Body*, ten *Hands*, and four *Heads*. These share among them one *Hair*, which explains the necessity for the two *Wiggs* and two *Combs*. Two *Leggs* are available for locomotion. Mention is made of one *Back*

and one *Bone*, and we read of an anatomical curiosity called a *Twomey*; this may account for the *Tickle*. The intellectual side is diverting, as only two chemists possess *Brain*, although four are *Sage*, five *Wise*, three are *Wise-men*, and one a *Schollar*.

Botanical names are well diffused through the volume, as we read of twenty-nine *Gardeners*, who have but a solitary *Garden* to care for. There is a *Seedhouse* which stores but one *Seed*. When we come to the *Forrests*, four in number, we learn of six *Forresters* to toil in them. No fewer than seventy-seven varieties of *Woods* are in the collection. These include five *Oaks*—one with a *Branch*—four *Birch*, two *Pine*, one *Elms*, one *Spruce*, and another *Tree*. Other information states that there are a *Rathouse* and three *Woodhouses*. In an adjacent *Orchard* we find four *Peach*, one *Orange*, four *Crabtrees*, three *Lemmon*, eleven *Berrys*, one *Pear*, one *Date*, one *Figg*, and one *Plumtree* (this, I regret, has only two *Plums*). A walk through six *Lanes* brings us to six *Apleyards*, which to our dismay yield but one *Sweet-apple*. The twelve *Parks* are worth exploring, as well as eleven *Fields* adjoining. We read of thirty-four *Brooks* and seven *Becks*, which are crossed by four *Bridges*. Here the twenty-two pharmaceutical *Fishers* are at first disappointed with their lot, as we are told about one *Fish*, and this has only one *Finn*, together with one in a higher state of evolution—viz., a *Fynn*. (We can call this a *Finney* story.) Later on their luck changes, for we read of three *Pike*, one *Bream*, four *Ling*, one *Haddock*, seven *Salmon*, one *Whiting*, one *Spratt*, four *Roach*, one *Codling*, and one *Cockle*. There is even a possibility of catching one of the *Whales*. The botanist can trace seven kinds of *Reeds*, one *Spurge*, fourteen *Roses*, one *Liley*, one *Privett*, and three other *Flowers*. Mention is made, too, of five *Bushes* and two *Rows* (both *Hawthorne*), as well as four different *Plants*. There are four *Meads* and four *Meadows*, which yield *Hay* (of thirteen varieties), *Barley* (five), *Oats* (one), and *Beans* (two). On the eleven *Banks* are nineteen species of *Moss*. The ornithologist has a happy time in these pharmaceutical fields, but not more than three *Guns* are available. There is a *Cockshott* and a *Crack*, both of whom find good sport in the *Martindale*, where forty-three *Martins* revel. Records are found of eight *Peacocks*, one *Crow*, one *Jay*, six *Partridges*, four *Cocks*, one *Cockerill*, two *Sparrows*, two *Owls*, two *Rooks*, three *Robins*, one *Linnett*, two *Wrens*, and three *Nightingales*. Two *Pools* and a *Pond* near by afford additional sport as the home of seven *Swanns*, two *Ducks*, two *Drakes*, four *Hérons*, and one *Wildgoose*. A more vigorous sport is that of the *Chase*, mentioned twice. We learn of sixteen *Hunts*, twenty-six *Foxes*, and thirty *Hunters*. Four are on *Cobbs*, and one will *Golightly*. There's a *Huntsman*, who shouted "*Gee up*" ten times. Further search reveals two *Boors* and thirteen *Hares*. The country lends itself to sport, as there are no less than fourteen *Dales* and a *Vale*, surrounded by five *Mountains* and fifty *Hills*. Near by are two *Dangerfields* in which two *Caves* exist. A few wild beasts infest these parts, notably five *Lyons*, three *Woolfs*, and two of the latter family variously spelt, in the wake of whom follows a *Wolfson*. Thus twenty-three *Shephards* are required to guard nine *Lambs*.

We have not a lucid meteorological report, but the information indicates three *Storms*, seven *Gales*, and six *Brèzes* in progress. These emanate from different directions—nineteen from the *West*, five from the *North*, and two are of *Southern* origin. Cold weather predominates, for there are three *Summers* and six *Winters*. The degrees of *Frost* amount to seven. During a period of two *Weeks* and thirteen *Days* (two of which are *Rainey*), *Snow* fell eight times, *Hale* eleven, and *Raine* six.

Chemists appear unevenly distributed geographically: sixteen favour *Kent*, one *Suffolk*, two *Cheshire*, two *Westmorland*, one *Cumberland*, and three are *Welsh*. When we come to towns we find four *Hulls*, one *Sheffield*, five *Hulmes*, five *Whitby*, one *Ware*, one *Chesterfield*, two *Dewsbury*, one *London*, three *Stroud*, two *Winchester*, three *Hayes*, three *Paris*, one *Thirsk*, one *Darlington*, three *Wakefield*, and many others. There

is no *Scotland*, although fifty-nine *Scotts* are settled in five parts of *England*, one in *Wales*, and five in *Ireland*.

Famous notabilities are recalled to memory in the Register. These include a *William Shakespear*, an *Horatio Nelson*, two *Jenners*, two *Abernethys*, and one *Pereira*. Three *Laws* are on this statute book, and when we search for *Bills* there is one that concerns us. We get little encouragement from our legislators and are unable to use force, having in recent years lost *Oliver Cromwell* and the only *Warrior*. We have, however, two *Bobbys*, and three ready to *Makepeace*.

Dental Society of Ireland

THE annual meeting of the Dental Society of Ireland, which consists of chemists and druggists and druggists practising dentistry, was held in the Shaftesbury Restaurant, Denegall Place, Belfast, on January 31. There was a large attendance of members from both city and country. The President, Mr. F. T. Smith, J.P., who occupied the chair, called on the secretary to read the minutes of the last annual meeting, which were passed, also the correspondence which had a bearing on the committee meeting held on January 24, 1923. A long discussion ensued in reference to the altered position of the Society brought about by the registration of its members, and the advisability of amalgamating with the English Chemists' Dental Society as an Irish Branch. It was finally decided that should the English Society be favourable to the proposition they would carry it out. The annual meeting was therefore adjourned, and a special meeting will be called when the English Society has replied.

Presentation to Mr. J. D. Carse

AN interesting function took place on January 31 in the Shaftesbury Restaurant, Belfast, when Mr. J. D. Carse, R.D., secretary of the Dental Society of Ireland since its formation, was presented with a token of the esteem of the members. Mr. F. T. Smith, J.P. (Antrim), President of the Society, occupied the chair, and there was a good attendance. After tea, provided by the chairman, Mr. Smith, in the course of a speech, said the Dental Society of Ireland was nine years old, the idea, which germinated in the fertile brain of their esteemed secretary, Mr. Carse, being to conserve and consolidate the interests of those practising dentistry, in view of possible legislation, and to co-operate with other kindred societies and organisations to that end. In passing, he paid a tribute to the first President, the late Mr. William Corbett. They all recognised what valuable friends Mr. Roberts and his colleagues of the English Chemists' Dental Society had been to them. Mr. Roberts had co-operated with them on all occasions, and in the name of the Irish Society he thanked him and his Society, and sent congratulations on the success crowning their efforts. Their thanks were also due to the treasurer, Mr. Moffett. The Society would not have flourished, nor could they have had so much success without Mr. Carse. Nine years of strenuous effort had resulted in their members being placed on the Dental Register. They would remember he (Mr. Carse) was called to give evidence on behalf of the Society before the Governmental Committee in London, and he successfully pleaded their cause there. They appreciated all his work, and thanked him publicly and unitedly. Their anticipations had been realised, and their Society had accomplished its task. He had the greatest possible pleasure in presenting to the secretary a wallet of Treasury notes and sovereigns as a small token of esteem and appreciation of his services to the Society. The chairman called on Mr. J. Moffett, who said, in the course of his remarks, that no other man could have done the work so successfully carried on by their Mr. Carse. Mr. Carse, who was enthusiastically received, said he had great pleasure in that all their work had been crowned with success. That was largely attributable to the unanimity which characterised all the meetings.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, The Chemist & Druggist," 42 Cannon St., London, E.C.4."

THE powder distributed to students on January 9 contained three parts by weight of crystallised zinc sulphate, three parts of zinc sulphide, and one part of zinc acetate. The calculated composition of such a mixture is:—

| | | | | |
|--|-----|-----|-----|-------|
| Zn | ... | ... | ... | 42.4 |
| SO ₄ | ... | ... | ... | 14.3 |
| S | ... | ... | ... | 14.1 |
| C ₂ H ₃ O ₂ | ... | ... | ... | 7.1 |
| H ₂ O | ... | ... | ... | 22.1 |
| | | | | 100.0 |

The powder also contained, as impurities, traces of iron, sodium, and ammonium, and of the hydrochloric and phosphoric acid radicals.

Samples of the powder were distributed to fifty-nine students, and twenty-eight reports were sent in for examination. Zinc and the sulphide were missed in one instance each and the sulphate in two instances. Nineteen students missed the acetate, while twenty-one overlooked the evolution of water when the powder was gently heated. Indications of the presence of a trace of a phosphate were noted by two students only, and of these one did not go so far as to report it definitely as an impurity. Only in four instances was the trace of ammonium detected.

When sent out, the powder had a slight odour of acetic acid, which suggested the presence of an acetate, and when suitable tests were subsequently applied, the fact that an acetate was present was established with certainty.

In the routine preliminary testing, evidence was obtained of the presence of zinc and a sulphide, and, on heating in a dry tube, of the evolution of water and, later, of sulphur dioxide. The last-mentioned was a product of the decomposition of the zinc sulphate.

Rather more than half of the powder dissolved readily in water, and by the aid of this solvent the zinc sulphide could have been separated from the other main constituents. Since a clear solution was easily obtained by treating the powder with dilute hydrochloric acid, no particular advantage would, however, have been gained by effecting such separation as was possible in this way.

The trace of an ammonium salt, as an impurity, could be detected by grinding some of the powder with soda lime, moistening the mixture on a watch glass with two or three drops of concentrated solution of potassium or sodium hydroxide, and covering with a second watch glass to which a small strip of moistened red litmus paper had been attached. On standing for a short time the paper turned blue. Boiling some of the powder with dilute solution of sodium hydroxide and testing for ammonia by merely smelling was not a sufficiently delicate method to ensure a reliable result in a case where only a trace of ammonium was concerned.

The proportion of the phosphoric acid radical present, as impurity, was very small, and it could scarcely have been detected by the aid of silver nitrate in the systematic examination for acidic radicals. Its presence was indicated by the test with ammonium molybdate when this was applied at the proper stage, with a suitably prepared reagent, and with the requisite precautions, in the course of the systematic examination for metals. The quantity of the precipitated phospho-molybdate was small, but it had the characteristic canary yellow colour—not the pale yellow of molybdic anhydride.

Although the powder contained a sulphide in large proportion, sulphide was not present in the sodium carbonate extract prepared from it, to be tested for acidic radicals. The explanation of this is that zinc sulphide is not decomposed by boiling with solution of sodium carbonate.

PRIZES

The First Prize for the best analysis has been awarded to:—

MILLINGTON H. PAYNE, Fairlawn, Thrapston.

The Second Prize has been awarded to:—

WILLIAM HAROLD RUDD, 17 Pitt Street, Norwich.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

| | | | | | |
|-------------------------|-----|----|-----------------|-----|----|
| M. H. Payne (1st Prize) | ... | 89 | Jerry | ... | 72 |
| W. H. Rudd (2nd Prize) | ... | 88 | Philander | ... | 72 |
| Holme | ... | 86 | Defoe | ... | 71 |
| H. S. Blore | ... | 84 | Rosie | ... | 71 |
| Plus Four | ... | 84 | Laychil | ... | 69 |
| Darwen | ... | 83 | Nil Desperandum | ... | 69 |
| Piff | ... | 81 | Schole | ... | 69 |
| H. Bowness | ... | 80 | Maria | ... | 68 |
| G. E. M. | ... | 79 | Alpha | ... | 67 |
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TO CORRESPONDENTS

M. H. PAYNE.—The reaction which seemed to indicate the presence of magnesium was perhaps due to traces of zinc which had not been completely precipitated as sulphide by excess of ammonium hydrosulphide.

W. H. RUDD.—The trace of chloride present was insufficient to give a satisfactory indication with the chromyl chloride test.

HOLME.—What is stated in the reply immediately preceding applies also to the test with manganese dioxide and concentrated sulphuric acid. Always make certain, by trying a blank test, that the dioxide itself does not contain chloride—a very common impurity. The calcium probably came from tap water. Manganese was not present.

DARWEN and F. O. B.—You concluded that a chlorate was present on insufficient evidence. Some confirmatory test for it should have been applied in the systematic testing for acidic radicals.

PIFF.—In the known presence of a sulphide, the evolution of sulphur dioxide when the powder was heated with concentrated sulphuric acid should not have been assumed to indicate a sulphite. The sulphur dioxide was partly due to the reduction of the sulphuric acid and partly to the oxidation of the sulphur of the sulphide.

H. BOWNESS.—The slight indication you got with ammonium molybdate was due to the trace of a phosphate present, but apparently you regarded it as too slight to justify you in reporting the latter as an impurity. The fact that you observed the indication was, however, so far satisfactory. See the last sentence but one of the reply to "Holme."

LACTIC.—In testing for a sulphite, if you did not boil out the hydrogen sulphide completely before adding barium chloride and bromine water, there was a chance of your getting a precipitate of sulphur or of barium sulphate; but the question of the presence or absence of a sulphite could only be dealt with satisfactorily in this analysis by applying a special sulphur-acid separation method.

SEPTIMUS.—The evidence from which you concluded that a phosphate was present was not quite convincing, and required support from further testing.

AD LIB.—Sulphide in solution can be separated from sulphite by shaking with excess of freshly precipitated and washed cadmium carbonate and filtering to remove

the cadmium sulphide formed. Note that zinc ferrocyanide is almost white—not green. Any green colour which your precipitate appeared to have was doubtless due to the action of the acetic acid on an old solution of potassium ferrocyanide, giving rise to a coloured liquid.

BARRULE.—Observe more closely. "No reaction" on heating the powder with concentrated sulphuric acid is far from being descriptive of what actually occurred, and your report that the powder was insoluble in water requires modification.

PHILANDER.—If you had actually tried the effect of adding silver nitrate to some of the sodium carbonate extract you would not have been likely to report that a black precipitate, indicating a sulphide, was produced. The extract did not contain any sulphide, and it did not give a black precipitate with silver nitrate.

DEFOE.—The effervescence with dilute sulphuric acid was due to the escape of hydrogen sulphide only. Carbon dioxide was not evolved.

ROSIE.—A solution of ammonium molybdate, which yields a white precipitate when warmed with a solution containing dilute nitric acid is not a suitably prepared reagent for testing for a phosphate. A proper reagent should stand boiling with dilute nitric acid without yielding any such precipitate.

LAYCHL.—You omitted to report any sufficient preliminary examination, and apparently you decided that the zinc-group precipitate consisted of zinc sulphide only, without making any attempt to prove the absence from it of manganous sulphide in small proportion. The white fumes supposed to indicate the evolution of hydrochloric acid were no doubt due to the volatilisation of some of the added sulphuric acid.

NIL DESPERANDUM.—Although you report noticing the odour of acetone on heating the powder, you do not appear to have followed up the hint thereby conveyed to you, and the acetate which was present remained undiscovered.

MARIA.—Note that aluminium hydroxide is not reprecipitated from solution in potassium hydroxide by boiling, as you seem to suppose. The reply to "Philander" applies to you also.

ALPHA.—You were too easily satisfied regarding the presence of a fluoride. The zinc-group precipitate should have been systematically examined. Your report that the powder was soluble in hot water is even more surprising than the numerous reports that it was insoluble in water.

NYLENE.—We applied Crum's test for traces of manganese, but failed to obtain the faintest indication. Does the lead peroxide you used give an entirely negative result in a blank test?

CHEMICAL.—We cannot account for your obtaining definite reactions for manganese in the systematic examination, unless this was introduced in some of the reagents employed.

ANALYSIS.—Your carefully drawn-up report unfortunately contains many inaccuracies. The powder was not without odour; it was not "insoluble" in water; moisture *was* evolved when it was heated; etc. The reaction you supposed to indicate the presence of a chlorate was due, no doubt, to silver sulphite, which may be precipitated in presence of nitric acid unless the latter is moderately concentrated.

UNO.—Your testing for acidic radicals is not systematic, and is confined to a few "confirmatory" tests. The usual routine examination should have been made.

FIZ.—You have established something in the way of a record in missing every main constituent of the powder, and in reporting as such three which were not present. A few marks have been awarded for accurate observations which, however, you have failed to interpret correctly. Study carefully the general remarks above, and the replies to other correspondents.

The percentage of carbon monoxide in coal gas supplied for domestic purposes, was stated, at a recent inquest at Brentford, to range from 13 per cent. to 18 per cent.

Jenner Centenary Exhibition

ONE-MAN shows, in science and art alike, have the drawback that as a rule they tend to monotony. From this monotony the Jenner Centenary Commemorative Exhibition, arranged at the Wellcome Historical Medical Museum, Wigmore Street, London, W., by the curator, Mr. C. J. S. Thompson, M.B.E., is happily free. The visitor, knowing how in less tactful hands the thing would have been vulgarised—"Curling Irons used by Dr. Jenner's Grandmother," and so forth—goes away wondering how so many well-known people and institutions have been induced to lend exhibits, and how the Wellcome curator has contrived to make them look as if they had always been where they are in the central hall of the Museum.

SALIENT FEATURES

First in importance, perhaps, are the numerous letters and communications in holograph. The original of the famous "Inquiry" in its first state (1797) is there, together with a draft of Jenner's will, letters to many people, and a prescription book of modest size. Jenner's caligraphy is entirely legible, and he could never have been a candidate for the *C. & D.* prescription-problem column. The only prescription *per se* that we noticed was for nothing more exciting than "pilul. hydrargyri gr. v., hora somni sumenda," but a cough pill on the open page of the prescription-book has the following composition:—

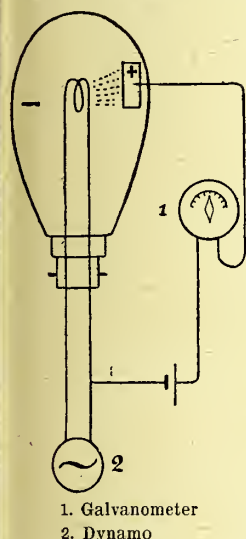
| | | | | |
|------------|-----|-----|-----|-------|
| Myrrhæ | ... | ... | ... | 3iij. |
| Bals. Per. | ... | ... | ... | 3jss. |
| Ext. opii | ... | ... | ... | 3ss. |

and may have given the chemists of the day some trouble. One of the letters contains a practical hint, afterwards known as "the golden rule," neglect of which might make all the difference in the treatment of vaccination cases. In lighter vein, there is a quatrain accompanying a present of a "couple" of ducks to a lady, a *jeu d'esprit* ending with the line, "So I've sent to attend her a couple of Quacks." Of almost equal fascination is the fine collection of pamphlets by Jenner and other investigators in English, French and other languages. Among these may be mentioned "Tracts on Inoculation," by Baron T. Dimsdale, 1781, and the official report issued by the Royal College of Physicians of London in 1807. It is safe to say that so representative a collection of rare pamphlets on a single subject has seldom been brought together. Another salient feature of the Exhibition is the group of oil paintings, with which may be ranked the drawings made to illustrate the clinical features of vaccination. The collection is fortunate in possessing the coloured drawings done by Kirkland in 1808, and published in facsimile some years ago by a medical journal. On one of the screens there is a striking collection of caricatures, including the original of the well-known one by Gillray, lent by Dr. Charles Renner. Many personal relics, but not too many, are arranged in the show cases and on the screens. Of such are medicine chests used by Jenner at Berkeley, with a horn of the cow from which his first vaccine was taken, polished by Jenner himself, and now in the possession of the Royal College of Physicians of London. Near the document relating to the conferring of the Freedom of the City of London on August 11, 1803, is a gold box presented on the same day by the Society of Apothecaries. Of a more intimate nature are Jenner's pocket scales, lancets, a snuffbox from the wood of the "Royal George," a seal, a pocket dental set, and a pair of spectacles—the lenses of which are unequal in size. Nor must the visitor overlook the case of medals struck in several countries, brought quite to date with that issued by the Royal Academy of Medicine of Paris on January 23 of this year. Aided and abetted by the Royal Society of Medicine, Sir William Hale White, Dr. McVail and other enthusiasts, Mr. Thompson has assembled a memorial collection worthy of its subject, and one that pharmacists who visit it cannot fail to find interesting. The Exhibition remains open for six months.

Practical Wireless Telephony

IX. Valves

AMONG the numerous and varied uses of the valve are : (i.) To maintain a continuous H.F. oscillation for heterodyne transformation; (ii.) to act as detector of the beats produced by heterodyne action; (iii.) to amplify æthereal waves before or after their rectification; (iv.) to act as a rectifier of oscillatory waves; (v.) to restrain or limit the strength of incoming waves. The second, third and fourth functions are those that are chiefly used in radio work. Edison discovered that if a small plate with a conducting wire leading from it was placed, under certain conditions, in an incandescent lamp, when the filament became heated by an electric current some of this current would pass through the exhausted space between the filament and the plate, but that this effect only obtained when the plate was positively charged. In other words, electrons, which we know to be negative charges of electricity, are attracted



1. Galvanometer
2. Dynamo

by the positively charged plate and actually leap across the rarefied space between the filament and plate, and if a suitable galvanometer is introduced into the circuit (see diagram) it will indicate the direction and quantity of current passing. When the filament is rendered incandescent by an alternating current (A.C.) it is alternately rendered positive and negative, but it is only when it is negatively charged that the electrons can escape. This property of the valve rectifier by which A.C. is rendered available was, and still is, used for the purpose of charging accumulators. It was due to the inventive vision of Fleming that this curious action was adopted in wireless—namely, treating the incoming waves of the aerial, rejecting one-half while passing on the other as a variable continuous current bearing on its curve the superimposed ripples, which break up a simple musical note into the complexities of speech. A still greater advance was effected when Lee De Forest made the improvement known as the grid. This apparatus consists of a perforated plate, or commonly a five-wire mesh or a cylindrical coil of wire, placed between the filament and the collecting plate or anode. The resulting apparatus is very like an incandescent lamp, but to economise current the filament of tungsten or platinum is generally straight, and completely surrounded first by the grid spiral and then by the anode, also a cylinder. In each case the anode is connected to a terminal at the base of the valve and the grid to another one. By means of this terminal a variable potential can be applied to the grid and has a most powerful effect on the amount of current passing to the plate—it is in fact a regulator or throttle. Used in this manner the valve device has the effect of amplifying the currents received from the aerial and, what is still more important, this amplified current can be passed through additional valves with consequent multiplication of signal strength until the currents are strong enough to be converted into loud speech with the aid of a loud-speaking telephone and trumpet. It is usual to apply about sixty volts to the anode and grid, but the filament only requires four to six volts, according to the intention of the makers. A convenient form of high-tension (H.T.) battery is built up with socket terminals at various points, so that by means of plugs current of any desired voltage can be tapped. The low-tension (L.T.) current is always controlled by resistance coils or rheostats, to avoid the risk of burning out the valve by the sudden application of too high an amperage.

Recent Patents

Abstracts of specifications of recently-granted British patents for inventions. The complete specification (1s. each including postage) can be obtained from the Patent Office, 25, Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Administration of Anæsthetics.—An apparatus consisting of a series of vessels designed to enable the mixing of gases with a liquid anæsthetic at variable speeds and proportions.—(L. B. Hall. 191,169.)

Barium Oxide.—Process for producing barium oxide by heating barium carbonate and carbon at a temperature of 1,000°-1,100° C. in an electric furnace under reduced pressure.—(W. von Dieterich. 191,215.)

Azo-Dyestuffs.—A dyestuff for chrome printing on cotton yielding deep violet-blue to brown tints is obtained by coupling diazotised 1-amino-2-oxynaphthalene-4-sulphonic acid with β -resorcylic acid.—(Society of Chemical Industry in Basle, 191,305.)

Luminescent Products.—A preparation obtained by adding sulphate of cadmium to a solution in which precipitation of zinc sulphide is being effected; filtering, washing and calcining the resulting precipitate. The luminescent colour of the product ranges from green to red.—(A. A. Guntz. 181,333.)

Fly Catcher.—A device consisting of a strip of paper, one end of which is formed into a hollow tube, the strip being coated with a sticky substance and so wound on the tube that the wrapping matter affixed to the other end completely covers the rolled strip and the tube.—(A. J. Mercer and Shothers, Ltd. 191,316.)

Aromatic Esters.—A process for preparing γ -dialkyl-amino-alkyl esters of aromatic acids, as the γ -di-n-butyl-amino-*n*-propyl ester of *p*-amino-benzoic acid by the interaction of a γ -halogen-*n*-propyl benzoate with a dialkylamin in which one of the alkyl groups is higher in the scale than the ethyl group.—(Abbott Laboratories. 191,122.)

Aluminium Salicylate.—Salicylic acid is added to aluminium hydroxide suspended in hot water in molecular proportions, and the resulting precipitate dried at 125°-130° C. The basic aluminium salicylate thus obtained contains 25.75 per cent. of aluminium oxide, and corresponds to the formula $C_6H_4O_2HCO_2Al(OH)_2$; it is claimed to be of use in the treatment of intestinal catarrh and diarrhoea.—(Société Chimique des Usines du Rhône. 182,446.)

Dihydroisoquinoline Derivatives.—A process based on treating an α -acydylaminocinnamic acid ester with molecular hydrogen in the presence of a metal catalyst, and then submitting the resulting dihydrocinnamic acid derivative to the action of a condensing agent, so as to convert it into a dihydroisoquinoline-3-carboxylic acid ester, some of which have been found to possess properties resembling those of hydrastinine.—(Society of Chemical Industry in Basle. 191,233.)

Business Changes

MR. J. R. PENNINGTON, chemist and druggist, has opened a pharmacy in Green Arbour Road, Thurcroft.

MR. C. R. TODD, chemist and druggist, is shortly opening a pharmacy at 55 High Street, Homerton, London, E.9.

MR. H. J. W. INKPEN, chemist and druggist, Olney, has acquired the business of Mr. C. H. Tracy, chemist and druggist, 131 Church Road, Hove.

BRITISH DYES.—Sir William Alexander, chairman of the British Dyestuffs Corporation, in reply to customers who view with concern the dislocation of ordinary industrial life and of means of transport in a region in Germany from which it has been usual for this country to draw supplies of dyes, says the British dye industry can offer a sufficient range of dyes of proper quality and in adequate quantity to sustain the consuming industries through difficulties which may face them.

Personalities

MR. J. FILLINGHAM, Ph.C., has been elected President of the Grantham Chamber of Commerce.

A CERTIFICATE of naturalisation has been granted to Mr. F. S. Duncan (formerly F. S. Dunkelsbuhler), research chemist, 5 Hyde Park Gate, London, S.W. 7.

MR. HAROLD OBSORN, managing director of Associated Products, Ltd., has been elected a director of the Western Dental Manufacturing Co., Ltd., London, W.1.

MR. ERNEST BRIER, for many years manager of the Petrograd branch of Parke, Davis & Co., has arrived in Detroit, where he is in charge of the sale of biological products.

MR. J. HANNAH, chemist and druggist, Abergale, has been indisposed for some weeks. Mr. Hannah, who passed the Modified examination in 1869, is the oldest magistrate in the town.

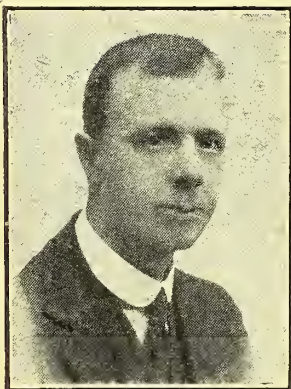
AMONG those who attended the funeral of the late Mr. William Woolley, J.P. (*C. & D.*, February 3, p. 155), which took place at Blackburn on February 2, were Messrs. R. L. Gifford, J.P., Ph.C., and C. A. Critchley, Ph.C.

MR. LEO JOSEPH, J.P., chemist and druggist, vice-chairman of the Executive of the Retail Pharmacists' Union, has been re-elected a justice under the Licensing Act; a member of the Probation Committee and Juvenile Rota; a justice under the Lunacy Acts, and an appointed visitor of licensed houses and institutions in connection with the Lunacy and Mental Deficiency Acts.

MR. COLIN L. HOLDERNESS, after thirty-three years' service with Parke, Davis & Co., has retired on a pension. For several years Mr. Holderness acted as private secretary to the late Mr. F. M. Fisk, but will be best remembered by chemists for his handling of D.D.A. orders, and by past and present students of the schools of pharmacy in London in connection with visits to the firm's laboratories at Hounslow. His departure was marked by a presentation, to which over 150 of his colleagues subscribed.

MR. A. P. FREEMAN, chemist and druggist, has been appointed superintendent and buyer of the enlarged drug department of James Shoolbred & Co., Ltd., Tottenham Court Road, London, W.1 (*C. & D.*, January 20, p. 79). Mr. Freeman served his apprenticeship with Jewsbury & Brown, Manchester, and has had many years' experience in management of West End business, having been manager for six years for S. F. Goss, Ltd., Regent Street, and eleven years for Heppells, Hotel Cecil Buildings, Strand.

MR. REGINALD DAVIES, the new President of the Cardiff Pharmacists' Association, has always been a keen supporter of everything connected with the Association. A native of Penarth, he is the third son of the late Mr. John Davies. He served his apprenticeship with a former President, Mr. H. A. Gerhold, Windsor Road, Penarth, subsequently gaining farther experience in several West End pharmacies, including two years as assistant with Mr. W. A. Goodall, Ph.C., Elm Park Gardens, South Kensington. After a period at the South of England College of Pharmacy, he passed the Qualifying examination in September 1909, and returned to Penarth, where



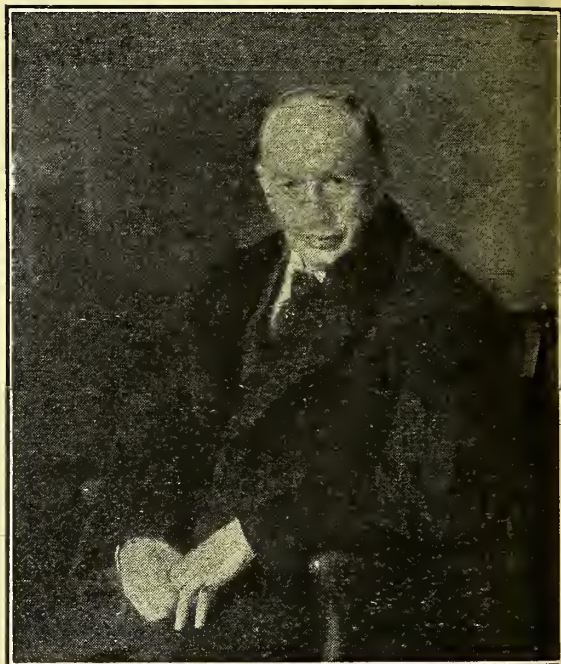
MR. R. DAVIES.

he acted as manager for Prosser & Co., which business he purchased about ten years ago. During his leisure

time he takes an active interest in various sports. Two of his brothers are pharmacists—Mr. H. F. Davies, Cardiff, and Mr. Latimer Davies, F.S.M.C., Bristol.

PROFESSOR W. P. WYNNE, F.R.S., D.Sc., F.I.C., has been nominated to the office of President of the Chemical Society. Professor Wynne, who was born at Stafford in 1861, has been officially connected with the Society for a long period, having since 1898 been secretary (twice), editor of the Journal, and Vice-President. In 1902 he became professor of chemistry in the Pharmaceutical Society's School of Pharmacy, and resigned this position two years later on his appointment to the Firth chair of chemistry at Sheffield University College.

MR. E. A. WEBB, late deputy-chairman of Evans Sons Lescher & Webb, Ltd. (whose retirement we



MR. E. A. WEBB, F.L.S.

announced in *THE CHEMIST AND DRUGGIST* a fortnight ago), after a service of over fifty-two years, had few equals among his contemporaries in the wholesale drug trade. A strenuous worker in every sense of the word, Mr. Webb, year after year, was always found at his post at 9 a.m., and by a well-organised system of departmental supervision was able to give that personal touch to each customer's order in matters of price and quality—a tradition which is carried on to-day by his co-directors. It was in 1872 that Mr. Webb, who is a grandson of the founder of the firm (John Evans), and was then twenty-one years of age, was admitted a partner of the London firm; but Mr. Webb's recollections of the drug trade date back to 1868, when he had the privilege of the acquaintance of Daniel Hanbury, who sought Mr. Webb's assistance in order to ascertain the ports from which drugs were shipped, and this Mr. Webb was able to ascertain from his uncle, Henry Sugden Evans, then in Liverpool, and subsequently founder of the Montreal branch. Mr. Webb was apprenticed to Henry Deane, of Clapham, in 1867, and while there succeeded in passing the Minor and Major examinations, and in 1870 carried off the prize of books for pharmacy, together with the silver herbarium, botany and materia medica medals. His name was incorporated with that of the firm in 1879, which then became Evans, Lescher & Webb. Since the retirement of his cousin, the late Mr. Harwood Lescher, in 1907, Mr. Webb had been chiefly concerned with the buying of crude drugs, on which he was able to bring to bear his sound know-

Age of materia medica, and in Mincing Lane he was known among the brokers and merchants as one of the greatest authorities, when any question of quality or description arose. His post at the London office is being held by Mr. Harold E. Webb, who has been working at the Liverpool house for the last fifteen months, and who has had twenty-eight years' experience in the business. Mr. Webb has another son in the business, Mr. Stephen F. Webb, who is in Liverpool. Many of our readers are cognisant of the great work Mr. Webb has accomplished as secretary of the Restoration Committee of St. Bartholomew the Great, West Smithfield (his distinguished brother, Sir Aston Webb, P.R.A., being the architect who carried out the restoration work), and the two sumptuous volumes entitled "The Records of St. Bartholomew's Priory and of the Church and Parish of St. Bartholomew the Great, West Smithfield," of which Mr. Webb is the author, will remain a fitting tribute to the successful realisation of the work, whereby the beautiful tomb of Rahere, which attracts visitors from all parts of the world, has been preserved to the public. Mr. Webb is a Fellow of the Linnean Society and a Fellow of the Society of Antiquarians, while he is also the author, in conjunction with Messrs. Miller & Beckwith, of a large and interesting work entitled "The History of Chislehurst." Mr. Webb will no doubt be able to devote his well-earned leisure and attainments to the study of archaeology, in which there is no richer field than the City of London. It is interesting to note that the Webb family's connection with the parish of St. Bartholomew dates back to 1828, when John Evans came to reside in Bartholomew Close. Many expressions of regret on Mr. Webb's retirement have been received by his co-directors, and we need only add that he carries with him the best wishes of his many friends in the wholesale and retail drug-trade. The portrait we give is from an oil painting by Mr. Oswald Birley.

Birth

Notices for insertion in this column must be properly authenticated.

LESCHER.—At The Chestnuts, Wood End Green, Hayes, on January 30, the wife of T. Edward Lescher, O.B.E. (Evans Sons Lescher & Webb, Ltd.), of a daughter.

Marriage

HONEYMAN—DEDDIS.—At Lynn Memorial Methodist Church, Belfast, on January 24, David McRae Honeyman, R.D., F.C.O., eldest son of Mr. D. Honeyman, Castleblaney, co. Monaghan, to Lily Deddiss, eldest daughter of the late Mr. M. Deddiss, Donegal, and of Mrs. Deddiss, Crumlin Road, Belfast.

Deaths

BLAYNEY.—At sea, recently, Mr. William Herbert Blayney, chemist and druggist, Princess Street, Haslingden, aged fifty-three. Mr. Blayney was the youngest of three surviving sons of the late Mr. J. J. Blayney, who went from Manchester to Haslingden in 1856 and took over the business of a chemist and Italian warehouseman in Deardengate. His son was associated with him in the concern, the other sons being medical practitioners—one in Leeds and the other in Manchester. Mr. W. H. Blayney took over the Haslingden business a few years before his father's death. He was one of the founders of the Haslingden Tradesmen's Association, a director of the Hargreaves Street Manufacturing Co., and an expert in travelling. In the last-mentioned connection he was known in most parts of Lancashire, and created some remarkable records by organising long-distance railway excursions, including day trips to Boulogne and even to Brussels, which he ran entirely on his own responsibility.

BLOUNT.—On January 27, after a brief illness, Mr. George Blount, chemist and druggist, 6 Lady Margaret Road, London, N.W.5, formerly of 51 High Street, Camden Town. Mr. Blount qualified in 1874. For a long time past he had been actively connected with the municipal life of St. Pancras, in which sphere his devotion to his duties as a councillor gained him the esteem of all his colleagues.

FOWLER.—At 21 Victoria Grove, Southsea, on January 26, Mr. William Ratcliffe Fowler, Ph.C., aged seventy-four. Mr. Fowler, who passed the Major examination in 1871, purchased the business of Mr. W. H. Rastrick, 122 Queen Street, Portsea, in 1883. Six years later he took into partnership Mr. George Donaldson, chemist and druggist, who on Mr. Fowler's retirement in 1893 became the sole proprietor. The business has nearly completed its first century, having been founded in 1825. Mr. Fowler was for some time a member of the Portsmouth Town Council and of the Board of Guardians: he was elected to the chairmanship of the latter body in 1908. Latterly he had interested himself in a greengrocery business and the breeding of pet dogs. At the commencement of the war he took up the management of the pharmacy at Twyford Avenue for Mr. J. W. McIntosh, who was called up for active service.

MORRIS.—At Brecon, on February 4, Mr. John C. B. Morris, J.P., chemist and druggist, aged eighty. Mr. Morris succeeded his father in an old-established business, which he personally conducted up to a fortnight ago. In his younger days he was a keen cricketer, and took an interest in many kinds of sport. His eldest son died while on service with the Brecknock Territorials in India during the war. Mr. Morris is survived by a son and two daughters.

WAIN.—At Hawarden House, Lightwood, Longton, Stoke-on-Trent, recently, Mr. Edwin Sargeant Wain (Wain Bros., Ltd., wholesale chemists, Normacott Road), aged fifty-four. Mr. Wain joined his brother, Mr. Percy Wain, in the business twenty-five years ago. He was rector's warden at Longton Parish Church, and a manager of St. James's Church Schools.

WATSON.—At Wallbridge House, Frome, on January 26, suddenly, Mr. John Winder Watson, chemist and druggist. Mr. Watson, who qualified in 1884, resided at Weston-super-Mare. He had been doing *locum tenens* duty since January 22 for Mr. J. E. Robinson, a Frome pharmacist.

WILLIAMS.—On February 4, Mr. John Williams, J.P., chemist and druggist, Bala, aged sixty-six.

College Notes

LONDON COLLEGE AT HOUNSLOW

A FOOTBALL match will be played on February 17 between teams representing the London College of Pharmacy and Parke, Davis & Co., on the Heath opposite P. D. & Co.'s laboratories at Hounslow; kick-off at 2.45. Past as well as present students are invited to attend. Tea will be provided, and an informal dance will follow. Further details from Mr. J. G. Miller, London College of Pharmacy, 361 Clapham Road, S.W. 9, or Mr. F. A. Lawman, c/o Parke, Davis & Co., 50 Beak Street, W. 1.

ALTIOR STUDENTS' SOCIETY

A MEETING of the Altior Students' Society (Leeds College of Pharmacy) was held on February 3, when a paper on "Dyestuffs" was given by Mr. E. Law. Before going into the preparation of the dyes themselves and their properties, Mr. Law explained the different physical and chemical properties of the various fibres used, how dyeing was a chemical combination between the dyes and the fabric, cotton, wool, silk, etc., and not a mere mechanical deposition of colour in the interstices of the fibres. He then explained the different types of dyes, their uses and manufacture, and the reasons why certain dyes had a greater affinity for one fibre than another.

Trade Notes

"BUSINESS BUILDING" is a new publication by Sir Isaac Pitman & Sons, Ltd., Pitman House, Parker Street, Kingsway, London, W.C. 2, advertised in this issue. A list is given of the contents of Part I.

PEPS PRICE.—C. E. Fulford, Ltd., Leeds, announce that from February 19 the retail prices will be reduced to 1s. 3d. and 3s. Existing stocks will be credited if returned promptly to the company or the wholesale house from which they were obtained.

PEARS' SHAVING STICK.—A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C. 1, devote their advertisement to the white opaque shaving stick of the "Golden" series. The company inform us that this shaving stick has increased very much in popularity, and the sale is now larger than any British shaving stick at the same price.

THE ALTRINCHAM RUBBER CO., whose premises were burnt down recently (*C. & D.*, January 27, p. 106), have taken premises at 2 and 4 Kingsway, Altrincham, which are being stocked with new goods as quickly as possible. The company, whose records have been destroyed, ask that customers to whom blocks have been lent for illustration purposes will kindly return them.

DR. PAGE BARKER'S LOTION.—Thos. Christy & Co., 4 to 12, Old Swan Lane, Upper Thames Street, London, E.C. 4, send us specimens of the new showcards produced to advertise Dr. Page Barker's scurf and dandruff lotion. There are six varieties of the showcards, and in the reading matter emphasis is laid upon the guarantee to return the purchase price in full if the lotion fails entirely to eradicate scurf. Messrs. Christy supply the showcards on request.

A RAPID CALCULATOR.—Those who want to know at a glance how much a pound sterling is worth in terms of American and Canadian dollars and cents should consult the Rapid Calculator, compiled and issued by Mr. A. T. Wheeler, 9 Great Tower Street, London, E.C. There are three sets of tables in the Calculator, the first converting sterling into dollars and cents from $\frac{1}{4}$ d. to 20s. Table 2 gives the cost per lb. in dollars and cents, the price being given in sterling per cwt. from 5s. to £50 per cwt., and Table 3 gives the sterling value of dollars and cents from 5c. to \$10,000. The Calculator, which is obtainable from A. Palmer & Co., 45 Eastcheap, E.C., at 6s. net, is a most useful publication for the chemical and drug trades.

EDME MALT EXTRACT.—The proprietors of Edme malt extract, for whom the distributors for the United Kingdom are Francis Newbery & Sons, Ltd., 27 Charterhouse Square, London, E.C. 1, have favoured us with an analysis of the extract by the leading authority on the subject. The report shows that the extract has a diastatic activity of 71° Lintner, and that it contains 41-46 per cent. of maltose. It is pointed out also that there is strong evidence that vitamins are present in an appreciable amount. The value of malt extract as an addition to milk is due to the fact that it prevents hard clots forming in the stomach, and in this way promotes the digestibility of the milk. The analysis shows that the Edme malt extract is a first-quality product. It has been made at Mistley since 1895, from barley malt, and is sold in neat packages either as plain extract or combined with cod-liver oil.

TEUCER PRODUCTS.—The Teucer Pharmaceutical Co., 165 Broadway, Southend-on-Sea, introduced some time ago a series of packed specialties for chemists' sale, which marked an advance in the manner of presenting these articles. The development of the idea has been delayed for various well-understood reasons, but now the company propose to carry on a propaganda with chemists, who are asked to co-operate in exclusive agencies for the sale of the series of packed goods. The pamphlets and other advertising matter are produced in a distinctive style, and there are many businesses where this line of specialties are specially suitable for selling. Even the price-list is distinctive, and many will find the hints for assistants useful. For

instance, who cannot agree with Rule No. 4: "Never argue with a customer. Agree with him so far as possible. If not, be quietly tolerant. In this way you make business friends of potential enemies."

SALES CONFINED TO CHEMISTS.—It is not an everyday occurrence that a manufacturing house decides to advertise on a national scale those of its products the sales of which are confined exclusively to chemists, but in this connection we recently had occasion to draw attention to the efforts of S. Maw, Son & Sons, Ltd. The idea has met with so much appreciation that the company has enlarged the scheme so as to include Parex Baby Powder, advertisements of which are to appear in papers which appeal to women. The profit on this line is substantial and has not been interfered with, the whole cost of the advertising being borne by Messrs. Maw, who will assist the retailer by an adequate supply of showcards. *A propos* of the new Insurance dressings, the company are sending out to chemists cards (10 in. by 6½ in.) giving a summary of the regulations, and have prepared parcels comprising a small quantity of each of the new dressings, particularly suitable for those who do not wish to carry large stocks.

Society of Chemical Industry

FOR the first time in the history of the two Societies a joint meeting of the Society of Public Analysts and of the Nottingham Section of the Society of Chemical Industry was held on January 17. More than fifty of the members of the Society of Public Analysts went to Nottingham to take part in the discussion on the methods of estimating arsenic, and were entertained to dinner by the local section prior to the discussion, which took place in the Lecture Theatre of Nottingham University before a crowded audience. The chair was taken by Mr. Burford (chairman of the Nottingham Section), and the discussion was opened by Mr. A. Chaston Chapman, F.R.S., who described his experience during the last twenty-five years with the zinc-acid process, and gave an outline of his procedure, particularly in the use of cadmium to render the zinc sensitive. He was followed by Mr. Wilkie (secretary), who demonstrated the use of his electrolytic method of estimating arsenic, in which the reversibility of the reaction was prevented. The next speaker was Dr. Monier-Williams, who showed an electrolytic Marsh apparatus modified from that in use in the Government laboratory. Major Trotman was of the opinion that the preliminary treatment of the material was the crucial point of the estimation. He advocated the calling of a conference to discuss the standardisation of methods of estimating arsenic. Mr. H. Droop Richmond attributed the want of sensitiveness of the zinc in the zinc-acid method to the presence of iron, and Mr. J. Webster described an experiment indicating that the total amount of arsenic in a large organ such as the liver was correctly estimated by multiplying the amount found by a factor. Mr. Jenson, Dr. Dyer and Mr. Weaver also joined in the discussion, and Mr. P. A. Ellis Richards (President) and Mr. E. R. Bolton (secretary) expressed the thanks of the Society of Public Analysts for the hospitality shown to them by the Nottingham Section.

Information Department

INFORMATION WANTED

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|--|---|
| B/72. "Acme" Plasters | B/225. Murray's Pile Appli- ance |
| M/22. Crosscut Corn Razor | B/91. Oester's Crystal Water |
| C/62. Diethyl Telluride (London supply) | B/72. "Omega" Corn Files |
| T/22. "Flu Grip" Drops | F/22. Platinum Capsules |
| P/22. Hertz's Insect De- stroyer | M/22. "Rexona" Ointment |
| B/22. Kerferol Tablets | B/62. Sister Elder's Baby Food |
| S/22. Manicure Orange Sticks (American or Conti- nental makes) | S/22. U.S. or Continental makers of Manicure Emery Boards |

Observations and Reflections

By Xrayser II.

Mr. Mallinson

may be congratulated upon the fact that his speech at the conference called by the Insurance Act Committee of the British Medical Association was reported in the "Westminster Gazette" of February 1 as a "Chemist's Plea for the Panel Patients" against the attempt to cheapen the supply of drugs and appliances under the Act. In the report referred to, Dr. Brackenbury's remarks in defence of the service are represented as a "reply" to Mr. Mallinson, and as such they will certainly appear feeble to anybody who knows the facts. Economy, not efficiency, was the reason put forth for the use of stock mixtures, which we chemists have always opposed; and our opposition, whatever its motives may have been, was made in the interest of the patient as well as in our own. Mr. Mallinson was strictly correct in saying that neither as regards drugs nor appliances do panel patients get the same treatment as private patients, and it is well that the public should know where to lay the blame. I commend Dr. Brackenbury's use of "equivalent" as a synonym for "substitute" to the consideration of those patent-medicine proprietors who object to our preference of our own preparations to theirs. What a lot of virtue there is in a word! But what in a doctor is diplomatic gloss may in a chemist be rank blasphemy.

Mr. Neathercoat

in his address to the Liverpool Branch (*C. & D.*, January 20, p. 92), said, or implied, several things that are demonstrably incorrect. There is no reason at all why any local association that cares to should not include every class of person who is eligible for connection with the Society (and a good many who are not), and the Society does not "embrace all qualified pharmacists," and never has done so. The only two reasons given for the formation of local branches are non-existent. There may be others that have some sort of justification in fact, but Mr. Neathercoat did not mention them, and it is a curious sort of propaganda that ignores what exists and invents what does not in support of a case. What the President said of the future was almost equally visionary, and if it was meant as a contrast to the past it was an insult to his hearers. One would suppose the Liverpool Association had had no previous existence, or had been hibernating somewhere in "the illimitable inane," dormant and unknown. He promised lectures. Fifty years and more since men like Dr. Symes, Mr. Delf, Mr. Edward Davies (to name no others) were lecturing admirably to the Association. He spoke of education. Fifty years since Liverpool had an excellent library and museum, and a school of pharmacy, all under the auspices of the Association. He spoke of what the Society and the Conference would do. Fifty years since Liverpool chemists were urging the Conference to be more worthy of itself, and comparing the Council of the Society to the Executive of the much-despised Chemists' and Druggists' Society. In short, Mr. Neathercoat might have been lecturing his grandmother on the art of sucking eggs. I am glad to receive the assurance that the local association is still going strong, but if so there is the less need of a branch.

Leading a Horse to the Water

is not quite the same thing as making him drink and I do not see precisely how the Society can force every registered person to become a member. Ideally, every pharmacist should be a member; but if he won't he won't, and without an Act of Parliament you can't make him. It seems to have been forgotten that membership involves the payment of a yearly subscription, which the Society has no power to enforce upon those who pass its examinations. Is it proposed to forgo this? I think not. Mr. Campkin, by the way, is beginning to be concerned about the multiplicity of bodies now existing in pharmacy. I have been so for some time, but I am only a voice crying in the wilderness.

The Manchester Essays

of which you print a further instalment, are interesting, but taken as a whole they do not reflect much credit upon the craft. Most of them show confused thinking and a lamentable want of practice in the art of literary composition: the most notable exception is the essay of "Progress II," which as regards composition leaves little to be desired. The contrast between the educational demands this writer makes upon the prospective pharmacist and the picture he draws of the finished product, the actual pharmacist in business, is somewhat startling; but the fact that in British pharmacy as we know it the game is hardly worth the candle is not his fault, and his object being to raise the standard of professional conduct this contrast is, at most, only a tactical error. Next in literary merit to his essay is that of "Manchester Student," who does not, however, always succeed in saying exactly what he means—take the sentence "Superficially, nothing restricted about this set of conditions is apparent" as an instance. "Willow" ought to have chosen "Balaam" for his pseudonym: like the unhappy prophet so named, he sets out to curse the Moabites, but ends in blessing them altogether. His awkwardness as a writer is seen most plainly in the sentence beginning "To suggest that the rows of beautiful bottles," but other examples might be given. "Bestina" writes too oracularly to be always clearly understood. He says it is as easy to make a good impression on a customer as a bad one, and that the difference between the two is a difference in knowledge. He must surely mean that knowledge being equal a good impression is as easily made as a bad one, since he can hardly hold that it is as easy to know as to be ignorant; but he tells us further on that a slovenly and untidy pharmacist will "never create that impression," and insists on the necessity of seriousness, dignity, and a pleasant greeting, so that the creation of a good impression is not entirely a matter of knowledge after all. Moreover, pharmacists, he says, must be born as well as made, and we are not all born with equal aptitudes either for the acquisition of knowledge or for making a good impression.

The Rubber Grower's Booklet


referred to by "Showman" (*C. & D.*, February 3, p. 174) is a capital publication, the very thing such a circular should be. I gave my copy to a grandson, aged ten, who speedily became absorbed in it; and although his study of the book is not likely to have much direct influence on the demand for rubber goods, his interest in the subject will, I venture to say, like the ripple caused by throwing a pebble into a pool, spread in widening circles until it may not improbably affect the market. The book has these two advantages over most of the "house-organs" and similar publications that every post brings us: it is both informative and interesting, whereas they, as a rule, are neither. However attractively got up, they are too patently mere advertisements and self-laudations by interested parties to have any effect on one's action, while their rubbishy verses, stale jokes and little moral essays are merely annoying. There are exceptions, of course, but even these, though less futile than others that I have in mind, are apt to defeat their own object by over-statement and a too direct assault upon the reader. It is strange that such professors of the art of sucking eggs as some of the writers in these little booklets are should conduct their propaganda so artlessly. Even on the uninitiated public they have little effect. I once gave away 2,000 really pretty things of the kind, and never was asked for the article advertised. On the wily chemist they are even less likely to have an effect, unless there is something of substantive value in them bearing directly on the matter of which they treat, and they succeed in avoiding the appearance of mere catch-penny publications. The perfection of the art of advertisement, as of any art, is to conceal the art: the essential thing in propaganda is to be interesting.

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There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting efficient agents who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.
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£500 Free Indemnity for Chemists

PARTICULARS of this important extension of the benefits offered to subscribers to **THE CHEMIST AND DRUGGIST** are now available, and may be had on application to

THE PUBLISHER,
THE CHEMIST AND DRUGGIST,
42 Cannon Street, London, E.C. 4.

Editorial Articles

Foot and Mouth Disease

THE report has now been issued (Stationery Office, 2s. net) of the Departmental Committee appointed by Sir Arthur G. Boscawen, when Minister of Agriculture and Fisheries, to inquire into the origin and circumstances of the recent outbreak of foot-and-mouth disease and into the policy and procedure which was pursued in dealing with the disease, and to report whether any alteration of the

methods of administrative control hitherto adopted, or any amendment of the existing law is necessary or desirable. Primary outbreaks of foot-and-mouth disease usually occur in Great Britain at those times when the disease is prevalent on the neighbouring Continent of Europe, but as the importation of animals (other than horses and dogs) into this country from the Continent is prohibited, the disease must obviously be introduced here by some indirect agency. The agencies most commonly suspected are feeding-stuffs, packing materials and human beings. The fact remains, however, that feeding-stuffs drawn from the same consignment have been introduced to many other premises in the same district without any outbreak occurring. The same observation applies in the case of packing materials, and a similar argument holds good as to the human agency, so that these factors cannot be held accountable for all the primary outbreaks. As regards secondary outbreaks, there is evidence that these have been caused by air currents and birds, and there seems reason to think that primary outbreaks may be caused by virus similarly carried from the Continent. The period of incubation is usually from forty-eight to seventy-two hours, though an animal may carry the virus for a considerable time on some part of its body that is not penetrable; but actual infection does not occur until after such virus enters through some abrasion of the skin or through a natural orifice. With a view of preventing the introduction and spreading of the disease, foreign Governments and ship-owners' associations should be reminded of the Order relating to the bringing of foreign animals into port, and the attention of local authorities should be directed to the desirability of prosecuting in all cases of contravention. Also, municipal and county authorities should be encouraged to arrange for the veterinary examination of all important markets at all times, while animals landed from countries outside the jurisdiction of the Ministry should be subject to at least six days' detention before being moved from the landing-place. The movement of persons from infected premises played a by no means unimportant part in the spread of disease during the 1921 outbreak, and many outbreaks have followed the visit of a veterinary practitioner, who should, after a visit to any suspicious case, thoroughly disinfect himself before leaving the premises. The majority of the witnesses before the committee stated their opinion that the policy of slaughter is the correct one, and should be maintained. Those who have favoured the policy of isolation as more suitable for an outbreak of large dimensions were usually prepared to admit that in the case of small outbreaks which could be dealt with rapidly the policy of slaughter was preferable. Regarding milk from infected premises, the report states:

Milk intended for feeding to animals is required to be boiled before leaving the premises, but subject always to the necessity of obtaining a licence from the Ministry's, or the local authority's, inspector, for removal from the infected place, milk intended for human consumption is dealt with by the medical officer of health of the district. In some cases the whole of the milk supply has been prevented from leaving premises on which isolation has been adopted for a period far in excess of that which could be regarded as reasonable from the point of view of any safeguard to human health. Available veterinary evidence is that there is comparative little, if any, risk of the conveyance of the disease to human beings by the agency of milk from herds amongst which disease exists, and there is, indeed, little evidence to show that milk is a cause of the spread of disease amongst animals.

The report, after outlining the prescribed method of disinfecting vehicles used for the transport of animals, continues:—

We cannot regard this process of disinfection as satisfactory. The application of limewash is, in the majority

of cases, of little value, and probably serves merely to conceal the existence of manure, etc., in and about the truck. Moreover, this disinfection is not required to be carried out immediately after the animals have been unloaded from a truck, but only before other animals are loaded therein, and there appears to be a grave risk of the conveyance of infective material under any system which involves the movement of uncleansed trucks possibly for long distances to a cleansing station. The responsibility of carrying out the prescribed disinfection devolves upon the railway companies, and we have no reason to suppose that the companies do not carry out their duties in a generally satisfactory manner. Nevertheless, it is admitted that there is a wide variation in the standard of efficiency, but this, it is thought, will be remedied when the grouping of the companies takes effect. We have suggested to their representative that the railway companies should consider the feasibility of setting up a system of cleansing and disinfection by means of the application of steam at high pressure, but we are assured that this would be impracticable save at the largest cleansing depôts. It would obviously be impossible to make such provision at local wayside stations at which the numbers of stock dealt with are small. . . . At present, the presence of limewash appears to be regarded as evidence of disinfection, but, as we have already observed, we do not consider this method satisfactory. The question at issue is a technical one, and of great importance, but any change which would necessitate the institution of a more elaborate process of disinfection would tend to maintain the existing high cost of agricultural transport, which is detrimental to the livestock industry. We therefore suggest that the Ministry should confer with the representatives of the railway companies with a view to the adoption of a revised standard of disinfection, which, whilst more efficient than the existing method, would not involve a material increase in the cost to the companies. The Markets and Sales Order of 1910 requires all premises at which markets and sales are held at intervals of a fortnight or less to be provided with a paved surface impervious to water, so as to permit of the same being effectually cleansed by washing, and prescribes the cleansing and disinfection of such premises, and of pens, hurdles and fittings, after their use for a market or sale, and before they are again so used. The method of disinfection prescribed is similar to that referred to above. We recommend that in this case also limewash should cease to be regarded as a disinfecting agent, and that greater supervision should be exercised over the cleansing and disinfection of markets. . . . The requirements of disinfection should be made directly applicable to all lairs regularly used for the detention of cattle either prior to or after sale, and the use of any buildings as lairs should be prohibited unless they are so paved as to admit of effective cleansing by water.

As material for investigation is more easily accessible on the Continent, it is suggested that the Ministry should co-operate to the fullest possible extent in any research work which may be initiated on the Continent, either under the auspices of an international organisation or of the research staffs of foreign institutions. The appendices to the report deal with the pathology and history of the disease, the orders designed to prevent the introduction from without, history of the legislation affecting foot-and-mouth disease, details of cases in which outbreaks have occurred on the same premises on more than one occasion, and rules of the infected place. The expression "prescribed disinfectant" under the rules means (a) A 1 per cent. (minimum) solution of chloride of lime containing not less than 30 per cent. of available chlorine; or (b) a 5 per cent. (minimum) solution of carbolic acid containing not less than 95 per cent. of actual carbolic acid; or (c) a disinfectant equal in disinfective efficiency to the above-mentioned solution of carbolic acid.

The Ring Round the Ruhr

THE effects of the French occupation of the Ruhr on German industry are now becoming increasingly apparent, as is evidenced by the dislocation of transport in consequence of a reduced train service, and the almost monotonous regularity with which notices of advances in prices are published in Germany. As from February 1

the price of inland coal in Germany has been advanced by 78 per cent., a step which is meeting with considerable criticism, since it is regarded as inopportune and tending unduly to increase costs. The decrease in the minimum export prices for bromine and bromides was decided upon in order to stimulate exports, but attention has been drawn to the fact that the new lower prices are still rather higher than the average prices ruling outside Germany. The position in the chemical market at the present moment is by no means clear. Manufacturers are quoting higher prices, and in view of the uncertain outlook, are showing a marked disinclination to enter into commitments for forward deliveries. In this connection it may be mentioned that the reckless manner in which many firms have in past accepted orders which they failed to execute has done much to discredit German post-war business methods, and a leading trade journal remarks that "the great number of complaints regarding breaches of contracts by German manufacturers fully justifies the present prudent attitude." In the markets the demand is small, buyers and sellers both holding back in view of the general uncertainty. On the other hand, speculation in chemicals, particularly in pharmaceutical products, has reappeared on a small scale, due to the fact that many holders of stocks are now compelled to realise in consequence of the higher rate of interest charged on advances. This applies especially to those individuals who, without any knowledge of drugs or chemicals, embarked upon this branch of business as a lucrative speculation. A large number have come to grief, but the fact remains that drugs and pharmaceutical products exert a kind of fascination to many people on the Continent, and are viewed in the light of a means to attain wealth with ease and rapidity. Prices for chemicals vary within a fairly wide range, and in addition to dealers' quotations, it must not be forgotten that offers of chemicals in bulk quantities form a permanent feature among the advertisements in the daily papers. The violent fluctuations in the rate of exchange are affording dealers an ostensibly valid excuse for quoting prices, for the inland market, in foreign currency, and this is by no means confined to imported drugs, payment being accepted in German marks at the rate of exchange ruling when the remittance is received. In connection with recent events in the Ruhr, the British Board of Trade announce that the French and Belgian Governments have vested the control of the importation and exportation of goods by firms established both in the former occupied territory of Germany and in the Ruhr, and the power of fixing the conditions under which import and export licences may be granted in a Special Allied Committee. We have made a few inquiries on this side, but there is lack of precise information. It is, however, assumed that the Allied Committee in Bad Ems, now endowed with extended powers, is the authority in question. In view of the British abstention from participation in the new Franco-Belgian measures of coercion, this decision of the two Governments, whose representatives on the licencing committee will now have full control of the trade of the Ruhr with the outside world, is a matter of considerable importance to British traders having business relations with this industrial centre. On the other hand, the German Government have refused to recognise the validity of any licences issued by the Allied authorities in the occupied territory since January 23 for importation into, or exportation from, the Ruhr and the former occupied territory. To avoid unwelcome complications, goods imported, or exported, under such licences should, therefore, not be forwarded by any route which involves transit through unoccupied German territory. With reference to

business relations with that country, it is interesting to note that German papers recently reported that the British embassy in Berlin had issued the following cautionary remarks addressed to British firms trading with Germany:—(1) The British purchaser should fix a definite date for delivery, and permit a brief prolongation only in unforeseen cases. (2) He should insist upon fixed prices and not countenance the so greatly favoured phrase of "without engagement." German firms are in the habit of stating fixed prices if foreigners insist. (3) The buyer should demand the surety of a first-class bank for his payments, and if his order is not executed he should demand the repayment of this surety in foreign currency. (4) The buyer should require a surety to the effect that the German firm shall obtain the necessary export licence within a stated time. (5) Finally, the buyer should require that in the event of a difference of opinion arising, the matter should be decided by a court of arbitrators consisting of members of a chamber of commerce.

Drug Control in Geneva

WITH regard to the exercise of the pharmaceutical profession in Switzerland, the only point which is uniformly established on a Federal basis for the whole territory of the Republic is the curriculum and the Federal examination for obtaining the diploma as a qualified pharmacist. All other matters are left to the individual cantons to deal with by separate legislation. Switzerland has signed the Hague Convention, but up to the present no Federal law has been passed to give effect to the safeguards against illicit dealing in narcotics as laid down by this International agreement, due to the fact that the enactment of such regulations—keeping a record of all purchases and sales of narcotics, issue of licences to import or export narcotics—entails an alteration in the Federal constitution. In the meantime, the Republic of the Canton of Geneva has issued a separate law regulating the sale and use of narcotics, which embodies a new method of dealing with habitual drug takers. The first article forbids the purchase, except for legitimate purposes, of opium, morphine, ecgonine, Indian hemp, cocaine, and all other substances possessing similar deleterious effects on human health. It is forbidden to administer or to prescribe any of these substances, except when their use is indicated by medical science. These may be supplied only by pharmacists on a prescription, which may not be repeated, and must be retained by the pharmacist. Pharmacists, as well as wholesalers empowered to keep a stock of such narcotics, are required to register every transaction referring to the same. Interest, however, centres in Article 8 of this law, which provides that persons addicted to drug taking may be condemned to detention in an asylum, after undergoing a medical examination, in which case the provisions of the law of 1895 dealing with lunatics are applicable. Unless we are mistaken, this is the first instance in which a Government proposes to deal with drug addiction in so forceful and effective a manner.

An Old Medical Papyrus

THE Ebers papyrus, which is usually dated about 1552 B.C., has hitherto been regarded as "by far the most complete representation of the medicine and pharmacy of ancient Egypt," and it is in these very words that Wootton speaks of it in his "Chronicles of Pharmacy." He is in error in saying that Ebers "discovered it" in the winter of 1872-73. This was the date at which Ebers purchased the document; but it had previously been in the "physical possession" of Mr. Edwin Smith, and is mentioned by Lepoins, a well-known papyrologist, as "Papyrus Smith" as early as 1870. It does not appear, however, that Smith ever owned or professed to own it. We take these particulars from an important paper by Mr. James Henry Breasted, a member of the New York Historical Society, published in "Recueil d'Etudes Egyptologiques dédiées à la Mémoire de Jean-François Champollion" (Paris, 1922), the object of which is to call attention to a still earlier, and, accord-

ing to Mr. Breasted, in some respects a still more important medical papyrus actually owned by Smith, and now known under his name. It was bought by him in the year 1862, and though it is but a fragment it is said to throw quite a new light on early Egyptian medicine. Mr. Breasted dates it not less than a generation earlier than the Papyrus Ebers, with the possibility of a still earlier date by no means excluded, while in content it is considerably older than its actual date. The fragment extends to seventeen columns of hieratic script, containing a large section of "a coherent and systematically-arranged medical work, made up of cases and not of recipes." These cases, forty-eight in number, appear to be all surgical, or, at least, cases of external injury, and the interest of the papyrus for pharmacists is lessened by this fact. It is described by Mr. Breasted as a fragment of a "great Book of Surgery and External Medicine," but he adds that fragment as it is it "offers enough to enable us for the first time to form a just estimate of the character and value of Egyptian medical knowledge." Only in one case is there any mention of a magic charm; in all the rest we have "observable facts of anatomy, physiology, surgery, and therapeutic, quite unbiased by inherited traditions regarding the demoniacal causes of disease." In this respect the papyrus differs widely from other Egyptian documents of a later age, and proves, says Mr. Breasted, that the current view of Egyptian medical practice as invariably including magic devices is quite wrong.

Co-ordination of Pharmacology

FRANK R. ELDERED, chemical engineer, of New York, has written ("Journ. Amer. Chem. Soc.") on the need for co-ordination and co-operation of the work of "the army of clinicians, pharmacologists, biologists, and chemists," upon whom the health and happiness of the human race are so largely dependent. The time that may elapse between synthesis of a new compound and discovery of its properties is exemplified by the preparation during 1910 in Germany of the anti-oxine of perillaldehyde, and the taking of a Japanese patent nine years later for use of this same compound as a sweetener, which is claimed to be four to eight times that of saccharin. The failure of so-called "pure principles" to represent the activity of the crude drug is illustrated by digitalis. It is suggested that the methods of Osborne and his co-workers on fresh spinach and alfalfa would yield valuable results if applied to vegetable drugs. He goes on to point out that cod-liver oil, always popular with the laity, is rapidly regaining medical interest owing to its richness in the antirachitic vitamin A. The treatment of leprosy with ethyl esters and sodium salts of the unsaturated acids of chaulmoogra seems specific, brilliant results being obtained with intramuscular administration. Tuberculosis is being treated with ozonised air and oils. Benzyl alcohol and its esters are being used as sedatives for smooth muscle tissues. Dyes, particularly acridine dyes, find continually increasing uses as anti-septics: 2-ethoxy-6, 9-diamino-acridine being said to be superior to the acridine compounds nominally in use. Mercurochrome (di-bromo-oxymercury-fluorescein) seem to be a very useful urinary antiseptic. Progress in manufacture of organic arsenic derivatives has resulted in products less toxic than the original imported article. Bismuth, administered intramuscularly, in oil as potassium and sodium tartrobismuthate or in aqueous solution as bismuth and ammonium citrate, is reported as specific in syphilis. The quinine treatment of malaria has become more effective, but it is probable that some new derivatives of cinchona alkaloids will be even more effective than quinine. Cushy observes that *l*-hyoscine is fifteen times as active mydriatically as *d*-hyoscine, though the two are identical in inducing "twilight sleep." Digestive enzymes are being used in increasing quantities in food, leather, and textile industries. Suggestion has been made of the substitution of sterilised sea-salt for table-salt to supply iodine and other element normally lacking in human dietary. Germanium dioxide is found to stimulate formation of red blood cells. From an industrial standpoint, Mr. Eldred found in manufacture of medicinal products small scale operations are the rule, and that much could be gained by studying other branches of chemical industry.

Pharmaceutical Society of Great Britain Council-meeting

A PRIVATE MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on February 6. The following report has been supplied officially:—

DAGEROUS DRUGS REGULATIONS

A letter was submitted from the Home Office dated January 12, covering a copy of the notice which appeared in the "London Gazette" of that date, regarding Regulations proposed to be made amending the Regulations made on May 20, 1921, together with copies of the draft Regulations referred to in the notice.

The Council considered the proposal to amend Regulation 5 affecting National Health Prescriptions. While the present Regulations require that in the case of ordinary prescriptions the prescription shall be signed by the medical practitioner with his full Christian and surname and address, in the case of National Health Insurance Prescriptions it is not necessary for the address to be given. The draft of the proposed altered Regulations would further excuse the prescriber in the case of N.H.I. prescriptions from signing the prescriptions with his full Christian name or names.

The Council were unanimously and very strongly of opinion that the requirement that a doctor should, in addition to putting his address on the Prescription, sign it, not with his usual signature, but with his full Christian names, had caused serious and unnecessary inconvenience and often delay in supplying to the patient in urgent cases the prescribed drug. They were further of opinion that the partial exemption in the case of Insurance prescriptions would lead to still further confusion, and it would be more than likely that Insurance practitioners would sign their prescriptions for private patients in the same way as they would be authorised under the new Regulations to sign prescriptions for Insurance patients. It was decided that a letter setting out these contentions should be sent to the Home Secretary, and that he be strongly urged to extend the exemption given in this respect in the case of N.H.I. Prescriptions to all prescriptions written by medical practitioners entitled to prescribe Dangerous Drugs.

BRITISH PHARMACEUTICAL CONFERENCE.

A report of the Council's British Pharmaceutical Conference Executive Committee (see p. 199) was received and adopted, it being decided to add to the list of those nominated to report on the subject of the Conference finances the name of Mr. F. E. Bilson.

Wednesday's Proceedings

A meeting of the Council was held at 16 Bloomsbury Square on February 7, Mr. E. T. Neathercoat (President) in the chair. The absent members were Messrs. Guthrie, Wolff and Young. The President stated that an apology for absence had been received from Mr. Guthrie. There were no questions.

ELECTIONS AND RESTORATIONS

One hundred and fifty-six persons were elected members and one hundred and forty-one were elected student associates of the Society; a number were restored to the register, and forty-three were restored to the Society. The registrar reported that there had been one hundred and eighty-three registrations of apprentices as students since the last meeting.

RETIRING MEMBERS

The secretary reported that the following members of the Council retire in May next:—

| | |
|-----------------|----------------|
| F. E. Bilson, | H. O. Lloyd, |
| F. G. Hines, | P. F. Rowsell, |
| A. R. Keith, | J. R. Young. |
| A. R. Melhuish, | |

REGISTRAR'S REPORT

The registrar submitted his report for the year 1922. The following extract embodies the chief features:—

The subscribers to the Society are 1,045 life compounders, against 1,057 in 1921; 10,237 annual subscribers, against 9,897; and 1,642 student-associates, against 2,114. The number of apprentices or students registered is 1,228 (1,087 in 1921). An analysis of the examinations in London for the year shows the following:—Major, 73 candidates, of whom 42 were successful (in 1921 the respective numbers were

60 and 33); Qualifying, 2,371, of whom 653 passed (in 1921 the corresponding numbers were 2,665 and 838). In Edinburgh there were 26 candidates for the Major, of whom 17 were successful (in 1921 there were 6 successful candidates out of 11 entrants); for the Qualifying, 893 candidates, of whom 314 passed (in 1921 the numbers were 992 and 395 respectively). The number of pharmaceutical chemists on the registers on December 31, 1922, was 1,881, and of chemists and druggists 17,312, a total of 19,193. (In 1921 the respective numbers were 1,861, 16,675, and 18,536.) The register of superintendents of bodies corporate in Great Britain, and of firms or partnerships in Scotland, contains 909 names (812 in 1921). Eight hundred and fifteen cases of alleged infringement of the Pharmacy Acts were investigated (667 in 1921), and in 159 cases (143 in 1921) proceedings were instituted. The number of shops investigated with a view of ascertaining whether a certificate of qualification was exhibited was 3,357 (1,674 in 1921).

The PRESIDENT, dealing with this report, pointed out that the membership, 11,282 at the end of last year, was an increase of 328 upon the membership of the preceding year, and it was also the highest on record in the history of the Society. As to the position of the register, there was an increase of 657, the total being 19,193. That great increase, he thought, was the aftermath of the war, and in the next few years the normal increase only would be experienced. The President formally moved the adoption of the report, and this was agreed to unanimously.

GREETINGS

The PRESIDENT reported the receipt from the Pharmaceutical Society of Western Australia of the following greeting:—

"May all things as bright as our flora be,

In the year Nineteen hundred and twenty-three."

It was also reported that greetings had arrived from the Pharmacy Board of Tasmania.

The PRESIDENT said those messages had been received with the very greatest pleasure, and were heartily reciprocated to their brethren in the Colonies.

Mr. ROWSELL asked whether the Society itself ever sent out New Year messages to kindred bodies; but the President said it had not been the practice of the Council to send greetings up to now.

CORRESPONDENCE.

A letter was received from the Royal Institute of Public Health, signed by Sir William R. Smith, inviting the Society to send delegates to the Annual Conference of that body at Scarborough in May next. No action was taken.

FINANCE COMMITTEE.

The financial statement is summarised as follows:—Receipts since the last meeting, including a balance of £25 19s. 3d., amounted to £7,024 4s. 6d., comprising the following items:—Subscriptions, £5,337 8s. 3d.; Examination-fees, £7 9s.; Registration-fees, £388 10s.; Certificates of Qualification, £1 1s.; Penalties, £71 1s. 10d.; "Pharmaceutical Journal" Publishing Dept., £800; "Pharmaceutical Journal" subscriptions, £149 12s. 6d.; pharmaceutical press publications, £2 2s. 7d.; "Pharmaceutical Pocket Book," £21 19s.; Register of Chemists and Druggists, £7 14s. 6d.; B.P. Codex Supplement, £12 11s. 7d.; interest on investments, £194 10s. 5d.; sundries, £4 4s. 7d. Payments ordered at the last meeting amounted to £3,661 5s. 3d., and £3,300 was transferred to deposit account, leaving a balance of £62 19s. 3d. The other balances were:—Benevolent Fund (grants account), £1 1s. 11d.; (donation account), £15 0s. 2d.; Special Benevolent Fund, £12 14s. 6d.; War Auxiliary Benevolent Fund, £96 8s. 1d.; Orphan Fund, £102 18s. 9d. The report further stated that accounts amounted to £4,900 2s. 6d. to be paid, and that the action of the secretary in making payments amounting to £694 16s. 7d. was approved. It was also decided that £1,000 worth of Funded Loan on the Fund Account should be sold.

BENEVOLENT FUND

The report of this committee showed that ten applications had been considered, and that grants ranging from £10 to £50 had been made. Special contributions and

donations were announced as follows :—London Chemists' Golfing Society, £2 2s.; Bolton Pharmacists' Association, surplus funds on winding-up, £4 5s.; anonymous, 14s.; S. Bastow, Chichester, proceeds of weighing machine, 16s. 3d.; Hull Pharmacists' Association, proceeds of collecting box, £2 11s. 6d.; R. C. Tween, Bushey, proceeds of weighing machine, £2 2s.; L. Moreton Parry, collected at Southport Pharmacists' dinner, £11 11s.

Mr. PARRY pointed out that with regard to the subscription of £11 11s. collected at Southport, there were only 28 persons present, including some assistants and students. That such an amount could be realised augured well for the future success of the War Auxiliary Benevolent Fund.

The TREASURER pointed out that the Benevolent Fund subscriptions were £600 less than last year, which was a very serious matter.

Mr. PARRY asked if there was a corresponding drop in the total amount of subscriptions.

The TREASURER said he only wished to draw attention to the fact that the subscriptions to this particular fund were £600 less.

Mr. ANTCLIFFE wanted to know what the actual loss was. Money might have been given in another form. Often they went round to people who gave 10s., but subsequently deducted the amount from their yearly subscriptions. It would be more satisfactory to know what the definite result was.

The Treasurer agreed it would be more satisfactory.

WAR AUXILIARY BENEVOLENT FUND

This committee had considered six applications, and had made grants varying from £5 to £100. The committee also submitted a report on the work of the fund for the three months ending December 5. This showed that during the period under report the committee had considered sixty-five cases in which assistance was sought. The following tabulated statement gives particulars of the results of each month's meeting, with totals. The classification adopted in the report of December, 1921, has been continued for convenience of comparison—e.g., Class 1, dependents of those engaged in pharmaceutical practice who died as a result of the war; Class 2, pharmacists who had to take up naval or military service and close down their businesses or sacrifice their positions; Class 3, students whose studies were prejudicially affected by naval and military service :—

| Month | Class 1. | | | Class 2. | | | Class 3. | | | Totals |
|---------|----------|--------|-------|----------|--------|------------|----------|--------|-------|--------|
| | Cases | Grants | Amts. | Cases | Grants | Amts. | Cases | Grants | Amts. | |
| Oct. .. | — | — | £ — | 1 | 1 | £ 50 (ret) | 37 | 32 | £ 326 | £ 376 |
| Nov. .. | 1 | 1 | 30 | — | — | — | 14 | 9 | 191 | 221 |
| Dec. .. | — | — | — | 1 | 1 | 50 | 11 | 9 | 76 | 126 |
| | 1 | 1 | 30 | 2 | 2 | 100 | 62 | 50 | 593 | 723 |

Of the twelve cases in which grants had not been made, six applications, after very careful inquiry, were found to be either with very slight claim to consideration or to have received already assistance deemed to be adequate to their needs. Three applicants had been engaged in pharmacy prior to the war; two applicants asked for loans to commence business on their own account for the first time; and one applicant (a lady student) was deemed to be outside the objects of the fund.

ESTABLISHMENT COMMITTEE

The Establishment Committee reported on the research laboratory and the customary routine matters.

The PRESIDENT, commenting on the report of the Establishment Committee, drew attention to the fact therein that permission had been given to Miss Muriel Glyn-Jones, B.Sc., to conduct research under the direction of the Dean upon a subject to be selected by him.

It was interesting to note that she had obtained honours in botany. The Council wished to congratulate Miss Glyn-Jones, and would wish her every success.

ORGANISATION COMMITTEE

A report was submitted by the Organisation Committee, which stated that in March last the Council allocated £2,000 for the purposes of branch organisation, including the amount required to pay the grant of 2s. 6d. per member and student association to the branches. All the branches had not yet received this grant, although it would be paid to most of them. The committee were of opinion that the General Fund for 1922 should be debited, not with the actual amount paid and payable to the branches (the branches not paid appearing as creditors in the balance sheet for the amount unpaid), but that the General Fund should be debited with the full amount of £2,000, and a separate account, to be called the Branch Organisation Fund, be shown in the printed accounts, to which the amount of £2,000 should be credited.

The first recommendation was that in the accounts for the year 1922 the General Fund should be debited with the full amount of £2,000, allocated for the work of the Society's Branch Organisation, and that a separate account, to be called the Branch Organisation Fund, be shown in the accounts, to which the above amount should be credited.

The secretary presented to the committee a report showing those branches which had already held inaugural meetings and those which were awaiting formation. He also reported that it had not been found feasible to establish branches at certain centres suggested by the meetings of delegates in the various Federation Areas, owing to the number of members being under 25. It was therefore recommended that steps be taken to secure the formation of the outstanding branches before the close of the winter session, and that members of Council be appointed to deal with the establishment of the branches in those districts as under :—

North-Western Federation Area.—Messrs. Guthrie, H. O. Lloyd, Parry and Sargeant.

North-Eastern Federation Area.—Messrs. Antcliffe, Hines, Marns and Sargeant.

West Midland Federation Area.—Messrs. Keall, Melhuish and Wolff.

Central Midland Federation Area.—Messrs. Antcliffe, Peck and Wolff.

East Anglian Federation Area.—Messrs. Campkin, Peck and Skinner.

South-Eastern Federation Area.—Messrs. Bilson, Keith and White.

South-Western Federation Area.—Miss Buchanan and Mr. Rowsell.

North and South Wales Federation Areas.—Mr. H. M. Lloyd.

It was agreed that steps should be taken in consultation with the sub-committee in the respective areas to secure the assistance of those who would be prepared to deliver lectures in the North of England. Both recommendations were accepted by the Council.

The PRESIDENT said that apparently the scheme was going on remarkably well, and branches were springing up all over the country. He thought that by the end of the winter session they will have completed the work. Obviously the Council could congratulate itself and the country branches on the way in which they had pushed the scheme through.

Mr. PARRY raised the question as to the members appointed to look after certain districts.

Mr. H. M. LLOYD alluded to the omission of his name from the Midland Area, with which he had been previously intimately associated with. He felt rather slighted, especially as his association with the Midlands had been so long, and would so continue until his friends there said they did not want him to further carry on. In regard to the list of three London members added to the Midlands list, he thought he was being pushed out. (This was received with cries of "No, no," from the members.)

The PRESIDENT said there was no intention of keeping Mr. Lloyd away from his old work. However, Mr. Lloyd was residing in the Western area, but Mr. Lloyd's name, he was sure, would be unanimously added. The work in London had been so quickly and well performed that numerous London members were available for work in the country, and he believed their help would be esteemed.

The VICE-PRESIDENT said he believed the country men did not want the London men to help them, as they were well able to cope with the work themselves.

Mr. CAMPKIN said he always thought the idea was to let those who lived in a particular district be appointed to do the organisation work in that district. Proximity was very important in this connection.

The PRESIDENT said that, seeing the enthusiasm expressed in the branch meetings, he thought there was no difficulty in fixing them all up quickly. The difficulty was that there were only two days in the week when the work could be done, and it was rather awkward for the members of the Council to get away on either a Wednesday or Thursday. He agreed proximity was very important.

The report was agreed to.

EDUCATION COMMITTEE

This committee met and considered a report on the practical training of students. The matter arose on the following letter referred to them for consideration by the Council at the meeting last month:—

"The Federation of South-Eastern Counties Pharmacists' Associations.—At a meeting of the above, the members unanimously passed the following resolution, and instructed me to send it to the Pharmaceutical Society:—That, in the opinion of this meeting, the Pharmaceutical Society should consider the question of apprenticeship, and publish for guidance: (a) 1. The ideal length of indentures. 2. The educational standard required. 3. The amount of time off for study. 4. Remuneration and other details. (b) Improvement in pharmacy depends largely upon recruiting the right type of youth as apprentice."

The by-laws empower the Council to make regulations requiring that candidates for the Qualifying Examination should produce evidence satisfactory to the Council that they have received sufficient preliminary practical training. The present regulations in connection with the practical training given, other than in a shop kept open for the retailing, dispensing and compounding of medicine, training which has been received under the supervision of a pharmacist in an institution, is to be under conditions which have been recognised for the purpose by the Council. The committee are of opinion that there is ground for considering whether the Council, as in the case of institutions, should not lay down conditions under which practical training in shops shall be recognised, and are of opinion that the executive of the British Pharmaceutical Conference should be requested to make arrangements for a session of the delegates from the branches, who will attend the conference for a discussion on this subject, and that it would be advantageous if a letter were sent to the branches stating that this discussion would take place, and requesting the branches to discuss the matter at their meetings, so that their delegates would be better informed as to the general views of the members on this subject.

Among other questions which arise are:—

1. Whether any form of indenture should be insisted upon.
2. The possibility of laying down some standard of instruction in the practice of pharmacy, to be given to such students.
3. The length of the pupilage.
4. The facilities, if any, which should be given for attendance at recognised courses for the subjects of the examination.
5. Remuneration.

The recommendation was:—"That the British Pharmaceutical Conference Executive Committee be requested to provide facilities for a meeting of delegates to be

held during the Conference for the purpose of discussing the foregoing report, and that in the meantime, copies of the report be sent to the branches of the Society, with a request that, prior to the Conference, they may give an opportunity to their members to discuss it."

Mr. WHITE said he noted with pleasure in the opening sentence of the letter that the matter was specifically brought to the notice of the whole Society, and not only to that of the Council. He thought that was only right. It would give an opportunity for more definite proposals to be formulated in time for the Conference in July.

Mr. SKINNER, dealing with question five of this matter, drew attention to the fact that remuneration was definitely mentioned, a matter which the Council had previously turned its nose up at. That also was all to the good.

The PRESIDENT pointed out it was deliberately mentioned in the recommendation sent to the Council.

Mr. PARRY congratulated the South-Eastern Federation in bringing the matter to the Council for discussion. It was such subjects as these which would help the Society considerably.

Mr. HINES said he would propose that the practice section of the Conference should again be put into being, and if it was agreed to, that Mr. Marchant should be asked to serve on the section.

The PRESIDENT said the idea of Mr. Hines was that delegates of the branches would be called together for the Conference, and as it was the intention of the Society to provide subjects, it would give an opportunity of hearing Mr. Marchant.

Mr. ROWSELL thought it would be most valuable to get the views of the members of the branches on the matter.

The report was then adopted. This concluded all the public business.

British Pharmaceutical Conference

The Executive met on January 23, Mr. F. W. Gamble in the chair.

Death.—The Executive regret to report the loss by death of Mr. F. J. Casey, Liverpool.

Year-Book of Pharmacy.—The Executive considered the report of a preliminary conversation as to the form in which the "Year-Book of Pharmacy" should be produced in 1923, between the President of the Society and the chairman of the B.P.C. There were also present, by invitation of the President, the chairman of the Journal Committee (Mr. H. Skinner), the editor of the Journal (Mr. J. P. Gilnour), and the secretary and the assistant secretary of the Society. The following points were approved:—

(1) That the publication should continue under its present title, "The Year-Book of Pharmacy."

(2) That the abstracts be submitted by Mr. Braithwaite to the editor of the Journal each month for the purpose of being set up in Journal encasure, so that they might serve as material for primary publication in the Journal, within the editor's discretion, as well as for eventual inclusion in the Year-Book.

(3) The editor was asked to make inquiries of the St. Clement's Press in regard to the most practical method of affecting the objects embodied in paragraph 2.

(4) That a similar procedure should be adopted, if possible, with regard to the matter for the "New Remedies" section.

(5) That the portions of the calendar of the Society dealing with administration, examinations, school, scholarships, library, museum, Benvolent Fund, etc., be epitomised so as not to exceed 50 pages, and be included in the Year-Book. The statutes, regulations, and lists of members to be dealt with in a separate publication—possibly the official Registers, which have to be issued by statute each January.

(6) That to assist in the production of the Year-Book a joint advisory committee be set up consisting of the President, Vice-President of the Society, chairman of the Journal Committee, and three members appointed by the Conference Executive.

The Executive nominated the following members to serve on the joint advisory committee: The chairman, Mr. F. W. Gamble; the secretaries, Mr. R. R. Bennett and Mr. C. H. Hampshire.

Annual Meeting.—The Executive considered the following draft programme for the social side of the annual

meeting, submitted by the honorary local secretary, Mr. W. J. Uglow Woolcock:—

Monday, July 23.—Reception in the evening, either at Great Central Hotel (the headquarters of the Conference) or at the County Hall.

Tuesday, July 24.—Ladies' excursions during the morning and afternoon. Lunch and dinner at the Great Central Hotel.

Wednesday, July 25.—Ladies' excursions morning and afternoon. Lunch at the Great Central Hotel. A concert would be arranged for the evening.

Thursday, July 26.—All-day excursion to Oxford. A dance or concert would be arranged for the evening.

It is expected that on Friday, July 27, arrangements for sports would be made, but these would not be officially undertaken by the Conference Committee. The chairman cordially thanked Mr. Woolcock for his report.

Treasurer's Report.—The Executive considered a report on the Conference finances, submitted by Mr. D. Lloyd Howard. The Executive have nominated the following to report again on the subject: Mr. E. T. Neathercoat, Mr. F. W. Gamble, Mr. D. Lloyd Howard, Sir William Glyn-Jones.

Chemical Society

At the meeting of the Chemical Society held in Burlington House on February 1, Sir William Tilden, F.R.S., and later Professor J. F. Thorpe, F.R.S., in the chair, three papers were read. Mr. W. H. Perkin (with Mr. S. G. P. Plant) presented a communication on *Derivatives of Tetrahydrocarbazole, Part II.*, in which, by the aid of numerous slides giving the formulas of various derivatives of this compound, he discussed their constitution and behaviour, dwelling particularly on the differences exhibited by the nitro and benzoyl derivatives. A considerable portion of this paper was devoted to theoretical considerations. In his paper, entitled *Isolation of the Oxide of the New Element*, Dr. Alexander Scott, F.R.S., described how he had succeeded some years ago in detecting "Element 72," claimed as a recent discovery by two scientists working in Copenhagen (*C. & D.*, January 27, p. 125). Whereas the latter have so far only succeeded in demonstrating its presence by x-ray examination, Dr. Scott was able to show actual specimens of the oxide of this new element, isolated by him over four years ago. Dr. Scott stated that in 1913 he undertook the analysis of a sample of a black sand given to him by a New Zealand friend. This sand was found to have a high content of ferric oxide and titanium dioxide. On treating the latter with sulphuric acid, hydrochloric acid, or sodium hydroxide, he always found a small quantity of material which would not dissolve. He collected these refractory residues, and already in 1918 had succeeded in isolating 0.1 gram, but owing to pressure of work had been unable to pursue his investigations until he heard of the discovery reported by Coster and Hevesy. Dr. Scott found it impossible to prepare any salts from the oxide, owing to its extremely refractory character, the only compound which he succeeded in obtaining was a crystalline double silica fluoride. The oxide, which is a brownish-coloured powder, and the silicon-fluorine compound were used to establish the atomic weight of the new element, which was found to be 175. In conclusion, Dr. Scott mentioned that he had submitted a sample for x-ray examination to Coster and Hevesy. *The Chemistry of Polycyclic Structures in Relation to Their Homocyclic Unsaturated Isomerides. Part IV. The Simulation of Benzenoid Properties by the Five-Carbon Intra-Annular Nucleus* was the subject of the paper by Dr. C. K. Ingold (in collaboration with Messrs. E. A. Seeley and J. F. Thorpe), which formed a continuation of the views already formulated in previous communications by the authors on the benzol nucleus and on intra-annular tautomerism. With the help of a large number of slides giving the respective formulas for compounds of the six- and five-carbon types, the analogy of the phases in both were reviewed, with reference to the Kékulé and Dewar theories. The stability of the bridge bond in 5-carbon compounds was discussed, with special reference to the formation of quinone structures on the oxidation of ketonic acids.

Royal Institution of Great Britain

LECTURING on "Fact and Phantasy in Industrial Science" on February 2 at the Royal Institution of Great Britain, Mr. Charles F. Cross, F.R.S., prefaced his discourse by stating that on entering upon his scientific career he was told that it would be a pilgrimage beginning at South Kensington and ending at Burlington House. Although there was an apparent antagonism between fact and imagination in industry, yet applied science was indeed a pilgrimage of fact and fancy. At first sight the cellulose industry, in which the various processes are carried out with meticulous precision, would seem to offer little scope for fancy. But phantasy enters very largely in the development of the secondary products of the textile industry, in which the application of pictorial art plays an important part, as is apparent from the artistic appearance of many textile products used for decorative purposes or as articles of apparel. The discovery of artificial silk in 1883 was a phantasy of an imaginative Frenchman, which was practically realised in 1900, and now the world production has increased to 120 tons daily. The progress realised in the form of the fibres, that is to say, their approximation to the appearance of textile fibres, from Chardonnet's silk to viscose silk, was illustrated by means of slides. The latest innovation in this field, the introduction of acetate silk, brought in its train two problems, due to the fact that its affinity for dyes differs totally from that of other fibres. Acetate silk is acid and resists water. To illustrate this point, the lecturer exhibited samples of cotton, silk and artificial silks, each dyed with the same dye, but exhibiting in some cases considerable differences in shades. These variations in colour are attributable to the differences in constitution of the fibres in each case. To prove the differentiation in colour the effect of three different dyes on a piece of fabric was demonstrated. The swelling of viscose silk on the addition of water was also shown, in illustration of one of the problems which confront the manufacturer. A slide of Egyptian cotton fibre, greatly magnified, was shown on the screen, in which concentric rings were plainly apparent; each of these rings represents one day of insolation, thus recording the process of growth. Apart from the chemical aspect of cellulose, the study of its physical properties offers great promise, and in this connection mention was made of such properties as fluorescence, changes of volume under the influence of variations in temperature, and the electrolytic effects obtained on passing a current through cellulose and metal in contact with each other. In conclusion, attention was drawn to the utilisation of the property of certain bacteria of breaking down cellulose. By this means it is possible to obtain alcohol, acetic acid, lactic acid, in addition to hydrogen and methane, by the fermentation of cellulose, a process which is controllable. This property of cellulose offers great potentialities, particularly as a source of alcohol, for which it is possible to utilise such waste products of vegetation as maize stalks and the papyrus plant.

THE OPIUM TRADE.—In the report of Sir Francis Aglen, Inspector-General of Maritime Customs in China, it is suggested that the Chinese Government should turn the opium and drug traffic into a monopoly. Sir John Jordan, ex-British Minister at Peking, in expressing his concern on the subject to a newspaper representative, said: "Such a step would not only undo all the good work of practically stamping out Chinese opium crops between 1907-17, but it will also make the task of dealing with the world's opium problem through the League of Nations, the sitting of whose Opium Commission I have just attended at Geneva, practically useless. Public opinion in the West must express itself strongly and without hesitation on this matter." The Society of Friends Committee on the Opium Traffic in a special report states that a vast quantity of opium is still manufactured at the Government factory at Ghazipur (India), and that official records show that in the financial year 1919-20 alone no less than 837 tons was produced.

Associations' Winter Session

Bath.—At a meeting of the Bath Pharmaceutical Association on January 31 a lantern lecture was given by Dr. Stanley White on *The Physiological Standardisation of Drugs*. Mr. H. C. Broad (President) was in the chair. The first series of slides showed important drugs growing and being gathered, almost every corner of the world being represented. The next showed these drugs being treated in the laboratories. Another series showed herds of cattle on the great ranches in America from which were obtained the glands which now form such an important group in the practice of medicine. The production of adrenalin and how it is standardised, the physiological testing of cannabis indica, and ergot were particularly interesting pictures. Important reference was made to insulin, now being used for diabetic cure.

Cardiff.—The twenty-third annual meeting of the Cardiff Pharmacists' Association was held at the Queen's Hotel on January 31, when the President (Mr. A. J. Harris) occupied the chair. There was an excellent attendance. The secretary reported that the subscriptions to the "Albert Hagon Fund" were coming in slowly, it being decided that the Committee should make a final appeal. The President-elect (Mr. R. Davies) was appointed to a Vice-Presidency of the Cardiff Chamber of Trade, while Messrs. J. Murray and J. Mason were elected as delegates to the Chamber. A letter was read from the City Corporation Development Committee, intimating a proposal to form a "Better Sales Association," the object being to educate and train assistants and apprentices in window-display, and further asking for the support of the craft. It was decided to defer the matter until a report could be given of a meeting to take place shortly, when Mr. E. C. Wyatt, London, would be lecturing on this subject, Messrs. Jabez A. Jones and J. Lee Jones promising to attend that lecture. The annual report and balance-sheet were adopted. Mr. F. Lea introduced the question of earlier closing during the period of "Summer Time." It was agreed that, subject to obtaining the necessary signatories to the petition, application should be made to the proper authorities to make an order. Mr. Hague pointed out that a certain Government official, acting as factories inspector, was in the habit of ordering or recommending to the owners of factories a certain brand of surgical dressing. It was unanimously decided to take steps to have this system remedied. At this juncture the President vacated the chair, and in introducing his successor, Mr. Reginald Davies, wished him all the support which had been accorded to him during his term of office. The new President on taking the chair was applauded, and gave an address on *The Proposed New Curriculum*. In his paper he advocated the raising of the Preliminary or Entrance examination to that of the Matriculation standard. Such examination should be passed prior to registration or apprenticeship. The profession of pharmacy offers to any pupil of average ability and intelligence a fair living, equal to most professions or trades, and superior to many. The speaker believed that the division of the Qualifying examination was in the right direction. In conclusion, the new curriculum, he said, is far in advance of the former one, and praise is merited by those who had drafted the new regulations, which he hoped the Society will adopt. He thought that now is the time to adopt new and up-to-date methods. Those who are not adapted for training to become pharmacists would not be able to enter the ranks, and in many instances become unqualified traders. Votes of thanks to the retiring President and the remaining officers were carried. At the conclusion the President invited all present to join him at tea.

Liverpool.—At the annual meeting of the Liverpool Chemists' Association, held on January 31 (*C. & D.*, February 3, p. 153), Mr. A. W. Ashcroft was elected President, Mr. J. L. Hirst was re-elected Secretary, and Mr. Martin Hughes Treasurer. [Corrected notice.]

Newport (Mon.)—The annual general meeting of the Newport (Mon.) Chemists' Association was held on January 29, Mr. G. Shelley (President) in the chair. The secretary (Mr. Jared Edwards) presented the balance-

sheet, which showed a satisfactory balance in hand. Votes of thanks were accorded to the President and to the secretary, who was voted an honorarium for his services. The following officers were elected for the ensuing year:—President, Mr. G. Shelley (re-elected); Vice-President, Mr. Jared Edwards; Secretary and Treasurer, Mr. J. D. Lewis; Auditors, Mr. Padget and Mr. Jackson.

Portsmouth.—A well-attended meeting convened by the Portsmouth Pharmacists' Association was held on January 31. Mr. A. B. Sparrow presided, and most of the panel chemists were present as well as representatives of the Insurance Committee. Mrs. J. K. Irvine, superintendent of the South-Eastern Pricing Office, gave an address on *Pricing Procedure*, describing the details of the work in her department in an exhaustive and entertaining manner. The progress of the batch of scripts as received from the chemist was followed step by step. The staff had become very expert, and queries which were dealt with in a separate room formed a very small proportion. The items were all priced first, then the dispensing-fees, and the electric adding machines printed these off, showing the totals and grand total. Mrs. Irvine handed round samples of the dockets, charts, and machine tapes for inspection. Turning to "irregular" scripts on which she had been asked to speak, these comprised prescriptions not on the official form, unsigned or unstamped, indefinite, and those which could not have been dispensed as written. Many prescriptions were unusual, and examples were amusing, but generally they caused no difficulty in pricing, and in no case was a chemist disallowed without being informed, or was a script returned to him if the information wanted could be obtained elsewhere. The lecture concluded with a few "Don'ts." Don't file or stamp to make quantities illegible. Don't write on the face of the prescription, except to underline an otherwise inconspicuous multiple, e.g., "Mitte 2 bottles." A discussion followed the address, and Mrs. Irvine answered many questions.

Sheffield.—At a recent meeting of the Sheffield Chemical and Pharmaceutical Society Mr. J. F. Ward, B.Sc. (chief chemist of the Crookes Laboratories) gave his interesting lecture on *Colloids*. With regard to their application to pharmacy, he said that colloidal phenomena are frequently met with in the every-day work of the pharmacist. When a resinous tincture, i.e., a true solution of a resin in spirit, is added to a mixture the resin, being insoluble in water, separates out more rapidly if a salt, such as potassium iodide or bromide, be present. To prevent this the pharmacist adds a protective in the form of mucilage. In the preparation of lin. pot. iod. cum sapone, soap solution, which is a perfect colloid, is precipitated by potassium iodide, so that the product could rightly be described as a precipitated colloid. In the manufacture of an ordinary emulsion the object is to sub-divide the particles of oil so that they do not coalesce, and in a perfect emulsion the particles are actually colloidal. Here, again, the addition of a gum "keeps" or protects the emulsion.

Stoke-on-Trent.—A meeting of the North Staffordshire Chemists' Association was held on January 30, Mr. Bloor (President) in the chair. Mr. Howson (secretary), in his report, said that, for the first time, their annual dinner had been a financial as well as a social success. Mr. Mott (treasurer) reported a satisfactory balance on the year's working. It was decided to reduce the annual subscription to 5s., including membership of the Retail Pharmacists' Union Branch. The sum of £5 5s. was sent to the Pharmaceutical Society's Benevolent Fund. It was further decided that monthly meetings be held, and that a ladies' committee be formed to help with the social fixtures. On the proposal of Mr. Bloor, Councillor Kemp (Fenton) was elected President for the coming year. A message of sympathy was sent to Mrs. Tipper (Stoke) on her recent bereavement. The late Mr. Tipper was one of the oldest members of the Association. Messrs. Challinor (Fenton) and Hodgson Todd (Burslem) were elected Vice-Presidents, and Messrs. Howson and Mott (Hanley) were again elected Secretary and Treasurer. It was decided to hold a dinner in the near future, and also to invite Mr. Mallinson to address the members on Retail Pharmacists' Union matters.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Essex.—Mr. J. H. Burrows (chairman) presided at the quarterly meeting of the Insurance Committee held on January 30. Mr. E. E. England proposed the adoption of the report of the Finance Sub-Committee. It stated that the cash in hand on December 31 was £40,525 3s. 11d. The sum of £341 16s. 9d. had been allotted to the Pharmaceutical Committee for their administrative expenses in 1922. The estimate of the Committee's expenses for 1923 was £370. A communication from the East Anglian Pricing of Prescriptions Committee stated that the proportion of expenditure incurred by the Joint Committee during 1922 to be defrayed by the Essex Committee amounts to £1,007 7s. 4d., the number of prescriptions priced being 744,678. For 1923 the estimated amount is £864. The following amounts had been paid on the Drug Fund Account:—To medical practitioners for dispensing in rural areas during the quarter ended December 31 at 6d. for each person, £1,632 14s. 6d.; to chemists on account of drugs, etc., supplied, £6,322 0s. 1d. The report of the Committee was adopted. Five chemists had been added to the panel and three had withdrawn. Complaints having been made by the doctors practising in Grays as to the difficulty of patients getting medicines in the evening, arrangements had been made by the local chemists whereby one will remain open until 8 p.m. for the dispensing of medicines to insured persons. On the new residential Becontree Estate it is estimated that there are about 2,000 insured persons. They had considered correspondence with Dr. Gardin, of Goodmayes, in regard to the difficulty experienced by insured persons in obtaining their medicine owing to the distance between surgeries in the area and the nearest chemist. Dr. Gardin, who has engaged an assistant and has opened two surgeries on the estate, has informed the Committee that he would be prepared to dispense for all insured persons who desire to obtain their medicines from him. The Pharmaceutical Committee had reported that it is not practicable at present for a chemist's place of business to be opened there. Having regard to this difficulty in obtaining their medicines from a chemist, the insurance doctors are to be allowed to dispense for insured persons resident on the estate who do not intimate to the Committee their desire to obtain medicines, etc., from an insurance chemist. The Medical Benefit Sub-Committee further reported that the Pricing Committee had furnished the following statistics on dispensing during the third quarter of 1922 and the corresponding quarter of 1921. In 1921 East Ham was included in the Pricing Committee's administration:—

| | No. of Prescriptions | Average total per Prescription |
|-------------------------------|----------------------|--------------------------------|
| Essex (excluding East Ham) .. | 150,525 | 8.65 |
| East Ham | 30,310 | 8.05 |
| 1922 | 180,835 | 8.33 |
| 1921 | 178,879 | 9.82 |

The Sub-Committee reported that the Pricing Committee had furnished particulars of 48 prescriptions issued by doctors during August and September of values ranging from 7s. to 21s. 11d.

Middlesex.—The annual meeting of the Insurance Committee was held on February 5. Mr. W. W. Kelland (chairman) and Mr. J. D. Cooper (vice-chairman) were unanimously re-elected. Mr. Andrew, Mr. Clement, and Mr. Wolff were appointed representatives of Pharmacists on the Hours of Service of Chemists' Sub-Committee. The Finance and General Purposes Committee reported that the following payments had been made in the Drug Fund Account:—October: To chemists, £3,543 0s. 5d.; to practitioners, £243 17s. 3d.; for dispensing to patients (Capitation drugs), £217 18s.; and for emergency drugs, 50s. 4d.; to Middlesex Pharmaceutical Committee (balance of admin-

istration expenses), £196 13s. 9d. November accounts: To chemists, £3,993 11s. 7d.; to practitioners for emergency drugs, £10 9s. 8d.; to Middlesex Pharmaceutical Committee on account of expenses, 1923, £250 0s. 1d. The action of the sub-committee was approved. On January 1 there were 293 chemists on the Panel. Since the last meeting of the committee there had been one resignation from and eight admissions to the Panel.

Sheffield.—At a recent meeting of the Insurance Committee the minutes of a sub-committee appointed for making arrangements for the examination and analysis of drugs, medicines and appliances showed that a letter had been received from the Pharmaceutical Committee expressing dissatisfaction with the present scheme under which samples are taken, analysed and reported upon, and suggesting that the following conditions be observed in the taking of further samples:—The chemist should be immediately informed of the taking of the sample. The report of the result of the analysis should be given within a month of the date of purchase. The chemist should be allowed to seal the sample taken. The sealed sample should be opened only by the analyst. It was recommended that the letter be acknowledged, but that the present system be adhered to. The Committee, however, will endeavour to expedite the issue of any report which is considered advisable upon samples taken. Mr. J. T. Appleton moved, as an amendment, that the letter be acknowledged and the requests contained therein be acceded to. On a vote being taken, the amendment was declared lost. The Committee approved of a voluntary scheme in place of the compulsory levy for Pharmaceutical Committees' expenses made in accordance with the regulations at the request of the Pharmaceutical Committee.

Somerset.—At a meeting on January 27 of the Insurance Committee it was reported that for the quarter ended September 30, 39,028 prescriptions had been issued at a cost of £1,704 12s. 8d., representing an average cost per prescription of 10.48d. For the corresponding period of the previous year the number issued had been 38,285; total cost, £1,934 13s. 6d.; average cost per prescription, 12.128d. At a meeting of the Insurance Committee on January 27 it was reported that the number of chemists on the panel (101) is the highest on record.

Warwickshire.—The Insurance Committee met at Warwick on January 30, when the proposal to adopt the Group F Formulary was finally dealt with. The Pharmaceutical Committee having obtained certain amendments and improvements to the formulas originally proposed, no longer opposed its adoption, and the Panel's Committee now asked for the approval of the Insurance Committee. The latter, however, insisted that the old Formulary should run concurrently with the new, and that doctors should be at liberty to use which formulary they preferred. On this understanding further opposition was abandoned, but a resolution was passed expressing disapproval of the adoption of the new formulary. The adoption of a scale of wages, instead of the present bonus system, was proposed by Mr. C. Davis (Leamington Spa), Chairman of the Finance Committee, and agreed to. The Committee also decided to continue the present triplicate prescription arrangement.

Worcestershire.—At a meeting of the Insurance Committee on January 27, the General Purposes Committee reported that they had considered having samples taken, and analysed, of medicines dispensed by chemists in the county, and they recommended that the clerk be directed to arrange for not more than twelve samples to be obtained and analysed by the County Analyst. This was adopted.

TO BE APPLIED INTERNALLY?—Fined £6 at Cookstown (Co. Tyrone) for having a quantity of poteen, an elderly farm labourer explained that the stuff was given him as a lotion for pains, and he had found it an excellent remedy.

A jazz band for a cadets' entertainment at Newcastle-on-Tyne was recruited from the staffs of Scott & Turner, Ltd., and Numol, Ltd. The instruments, which had been made by the performers themselves, evoked considerable amusement.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42, Cannon Street, E.C.4, February 8

So far as the Mincing Lane produce markets are concerned business is decidedly flat. This is largely attributed to the grave political conditions in Europe, which, together with the depreciated currencies, have bred a lack of confidence among operators in produce. Sugar has had a sharp advance. Rubber is dearer on the week but much quieter, and TN shellac on the spot is 10s. to 15s. lower. Zanzibar cloves are cheaper. Menthol is inactive, the sharp American decline having affected the market of late. Ergot is firmer and less plentiful on the spot. Cape aloes have a firmer tendency with more demand. Tragacanth has been selling at lower prices. Hankow wood oil in the absence of stock is nominal. Cod liver oil shows more demand at rather lower prices. Linseed oil is dearer and turpentine cheaper.

| Higher | Firmer | Easier | Lower |
|--|--|--|--|
| Castor oil (Fr.) Citronella oil (Cey.) Eunonymin Hexamine Leptandrin Linseed oil Palm oils Pitch Sodium salicylate | Bergamot oil Ergot Lemon oil Orange oil Palmarosa oil Pepper (white) Sodium benzoate Steadier Potash chlorate | Camphor (Jp., ref., slabs) Coconut oils Colocynth (pulped) Mint oil (Jp.) Morphine Pilocarpine salts Safrol | Apiol. Cloves Cod-liver oil Hyoscine salts Shellac Strychnine salts Tragacanth Turpentine |

Cablegrams

NEW YORK, February 7.—Business is quiet. Cartagena ipecacuanha has advanced a further 5c. to \$1.80, and Oregon balsam of fir is also higher at \$2.40 per U.S. gallon. Mercury is lower at \$70.00 per flask, and citric acid is cheaper at 49c. per lb.

BERGEN, February 7.—The total catch of cod for the whole of Norway since the opening of the season amounts to 2,000,000, against 1,300,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 2,452 hectolitres, against 2,141 hectolitres for the same period of 1922. Prices are lower, and range from 90s. to 92s. per barrel, c.i.f. London.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

| | January 31 | February 7 |
|--------------------------|-----------------|-----------------|
| Paris, cheque .. fr. | 78.85—78.95 | 74.70—74.80 |
| Brussels, cheque .. fr. | 89.90—90.00 | 84.60—84.70 |
| Berlin .. marks | 200,000—210,000 | 170,000—173,000 |
| Amsterdam, cheque .. fl. | 11.791—11.801 | 11.80—11.81 |
| Italy, sight .. lire | 981—981 | 961—961 |
| Switzerland .. fr. | 24.84—24.86 | 24.86—24.88 |
| Constantinople .. pstrs. | 740—780 | 700—750 |
| Madrid, sight .. pes. | 29.87—29.89 | 29.86—29.88 |
| Lisbon, sight .. escudo | 21d.—21d. | 21d.—21d. |
| Vienna .. kr. | 320—340,000 | 325—330,000 |
| Greece .. drch. | 382—392 | 385—390 |
| Yokohama, T.T. .. yen | 25d.—25d. | 24d.—24d. |
| New York, cable .. \$ | 4.645—4.645 | 4.675—4.675 |

Crude Drugs, etc.

AGAR AGAR.—Good No. 1 Kobe is still 5s. 6d. on the spot, and off colour slightly less. For No. 1 near at hand, 5s. 2d. c.i.f. is quoted.

ALBUMEN.—Prime hen is 3s. per lb on the spot, and for April-June shipment 2s. 9d. c.i.f. has been paid. Hen

yolk is flat with sellers of April-June shipment at 87s. 6d. c.i.f., and buyers at 82s.

ALOE.—Cape has sold more freely since the auctions, including good firsts at about 29s. 6d. per cwt., 27s. for seconds, and 25s. for dull. Imports have fallen off for a lengthy period and stocks have gradually dwindled.

ALMONDS.—Prices of Morocco, Sicilian and Bari remain steady, but Majorcas to arrive show a considerable reduction. Valencia and Jordan are quiet; spot supplies are not large, and would be replaced at rather lower prices.

AMBERGRIS.—The "Hazel Branch," from Corral, Chile, has brought one case to London.

ANTIMONY.—The supply of ordinary English refined is virtually exhausted, so that the quotation of £27 to £29 10s. is quite nominal, while high purify brands range from £33 15s. to £35. Foreign refined is slow, being held for £25 a ton, ex warehouse. Crude is quoted chiefly at £18 10s.

ARECA.—To arrive possibly 27s. 6d. per cwt. c.i.f. would buy Ceylon; there is nothing on spot.

BALSAMS.—Holders on the other side are asking 6s. 6d. per lb. for Canada balsam, and on the spot, market is firm at 5s. 9d. Balsam Tolu is obtainable at 3s. 9d. per lb. on the spot.

BUCHU.—Some c.i.f. business has been done in the old crop at slightly easier prices.

CAMPOR (REFINED) remains quiet, with sellers of Japanese 2½-lb. slabs at 3s. 9d. per lb. on the spot; to arrive, February-March shipment is quoted at 3s. 5½d. c.i.f.; ¼-oz. tablets can be had at 4s. 6d. on the spot.

CASTOR OIL.—French pharmaceutical is dearer for barrels at 53s. to 54s. per cwt., and 56s. to 57s. for cases, ex wharf, London. Pharmaceutical, in barrels, is quoted 53s. first pressing, 48s. and second pressing 46s., ex mills, Hull, and in London 3s. extra is quoted in minimum one-ton lots. Medicinal Italian is 66s. per cwt. in cases.

CHAMOMILES.—New Belgian crop can be had at 490s. per cwt., and old crop at 440s. on the spot.

CHILLIES.—A lot of good bright Japanese just arrived is selling at 175s. per cwt.

CINCHONA.—At Amsterdam on January 17 there was a good demand for pharmaceutical bark at firm prices. Of the 480 bales and 530 cases offered, weighing 51,111 kilos, Java, 175 bales and 332 cases, weighing 23,739 kilos, with a quinine content of 544 kilos, sold at from 32½c. to 123½c. per half kilo. Thirty-three bales of African were also offered and sold. The next auction will be held on February 21.

CIVET.—Genuine in original horns can be had at from 11s. per oz. and upwards.

CLOVES.—Zanzibar are slightly easier on the week, with spot sales at 10½d. per lb. To arrive, the sales include January-March shipment at 9½d. to 9½d. c.i.f., February-April at 9d., and March-May at 9½d. c.i.f. The wharf statistics for the week show landings of 810, and deliveries 399, leaving a stock of 1,499, against 12,347 bales at the same period of 1922.

COD LIVER OIL is creating greater attention in view of the first news of the new season's fishing. According to one source, we understand that the livers are apparently fat, and giving a good percentage of oil. It is still very early to venture on heavy buying until more definite information is available as to prospects. A considerable business has been done during the past week for both the old and new oil at slightly easier prices. In one quarter as low as 90s. per barrel c.i.f. London is quoted, whereas other London agents quote 92s. 6d. to 95s. for 1923 oil. The policy of buyers should be to cover part of their future requirements at the present parity, as lower prices may not be expected unless the new season's crop of oil is a heavy one. Our Bergen correspondent writes on February 5 that the fishing at Lofoten has begun under favourable auspices, and the livers are fat. The total result of the catch is as follows:—

| | Catch of cod. | Yield of cod liver oil. (hect.) |
|------------------------|---------------|---------------------------------|
| To January 23, 1923 .. | 500,000 | 715 |
| " " 28, 1922 .. | 300,000 | 410 |
| " February 5, 1921 .. | 200,000 | 1,569 |

COCONUT (DESICCATED) is firmer, fine on spot selling to 38s. 6d. to 38s. 9d., and medium at 39s. to 39s. 6d. To arrive, January-February shipment is quoted at 38s., and February-March at 38s. 6d. buyers.

COLOCYNTH.—Good Turkey apple is scarce at 1s. 10d. per lb., but fine white pulped is easier at from 1s. 1d. to 1s. 3d.

ERGOT.—A few parcels on the spot have been cleared and the market is firmer at 2s. per lb., with some asking 2s. 2d. for good sound Spanish. Portuguese is 1s. 10d. Middle European is quoted at 1s. 10d., and Spanish at 2s. c.i.f.

HENNA LEAVES offer at 87s. 6d. per cwt. for good green leaves, and 60s. for inferior. Fair-sized arrivals have taken place.

HYDRASTIS.—Spot supplies can be had at from 16s. 3d. to 16s. 6d. New York reports a firmer market and better demand; 16s. 6d. c.i.f. is quoted.

JUNIPER BERRIES.—Italian are quoted at 12s. per cwt. c.i.f. to arrive.

LIQUORICE ROOT.—Sales of Italian decorticated have been made at 75s. per cwt. c.i.f.; spot values are from 75s. to 80s.

MENTHOL remains inactive, and only a buyer with an order to place would find out the actual price; from 27s. 6d. to 38s. per lb. appears to be the nearest market values for Kobayashi-Suzuki on the spot. To arrive, February-March shipment is quoted at 31s., c.i.f. The several important reductions of late in the United States have not been without their effect on this market.

MERCURY has remained in a waiting attitude, due to expectations of better arrivals in the immediate future from both Italy and France, and the tone is rather dull. The export demand is limited, and spot lots are obtainable at £10 10s. per bottle, although some dealers ask a little more. On the other hand, parcels to arrive have been offering at somewhat below £10 10s. The home trade demand is chiefly confined to small lots. The market may possibly ease yet a little further, although the available supplies are of no great importance. It should be kept in mind that spot prices here are now already fairly well in line with the terms quoted by the Spanish mines, allowing for cost of freight and insurance, but dealers are cautious, lest first-hand sellers should decide to go a step further in the way of concessions. Arrivals this week amount to 60,000 lb. from Spain.

NUX VOMICA.—Although no business is reported, the market is firm, 2-s., c.i.f., being quoted for Cochin, and bids of less have been refused.

OLIVE OIL.—Extra choice vierge is quoted at 8s. 6d., extra vierge at 7s. 9d., fine cream at 7s. 6d., and pharmaceutical at 6s. 9d. per gallon, in barrels, ex wharf, London.

ORRIS.—Fair Florentine sorts offer at from 32s. 6d. to 35s. per cwt. on the spot.

PAPAIN.—Genuine Ceylon, guaranteed free from adulteration, is offered at 8s. 9d. per lb.

PEPPER continues quiet, with sales of fair black Singapore on the spot at 4½d. per lb. To arrive, January-March and February-April shipments are quoted at 4d. c.i.f. Tellicherry is 39s. 6d. c.i.f. for February-April shipment, and Aleppy is 39s. 6d. c.i.f. for February-April shipment. White pepper is firmer, Muntok offering at 6½d. per lb. To arrive, sales include January-March at 6½d., February-April shipment at 6d. to 6½d., and March-May shipment at 6½d. to 6½d. c.i.f. Fairly heavy shipments of white are now close at hand, and it is possible that there may be some temporary pressure to sell. The value of fair white Singapore on the spot is 6d. per lb.

PLATINUM.—Demand is still slow, and refined ranges from £22 to £23 per oz., while raw is quoted £20. Palladium is, however, firmer, due to a better demand from alloy makers, the chief sellers quoting £15 10s. per oz.

RUBBER has been steady, but quiet. The market is firmly held in spite of the lack of business, and in several instances the premium on "forward" rubber has disappeared. The violent fluctuations of last week have been conspicuous by their absence, and a fair quantity has been exported. We understand that during the next three or four weeks heavy shipments from London to America are expected, and as the arrivals are becoming smaller it is anticipated that the present heavy London stock will be considerably reduced. America has recently

bought fair quantities in Singapore, where the parity of "Standards" is higher than in this country. Deliveries last week amounted to 1,173 tons, whilst arrivals totalled 977 tons, with a reduction of 196 tons in the stocks. Quotations (Wednesday, 5 p.m.): No. 1 crêpe and ribbed smoked sheet, spot and February, 1s. 5½d. to 1s. 6d.; March, 1s. 6d.; April-June, 1s. 6½d.; July-September, 1s. 6¾d.; October-December, 1s. 6¾d. Hard fine Para is steady, but in little demand at 1s. 5d. Balata, slightly steadier. W.I. sheet at 3s. 8d. and Venezuela block at 3s. 5d.

SENEGA.—Latest New York mail advices (January 18) indicate a firmer market, with heavy buying for export; 74 to 75c. is quoted. Although there is no inquiry in London, some spot holders, in view of the firmer U.S. market, ask 3s. 7d.

SHELLAC is inactive and lower, with spot sellers of usual standard TN orange quality at 360s. to 365s. per cwt.; fine second orange is 400s., superfine 450s., AC cakey 330s., and GAL 300s. Futures are also inactive, with sellers of TN for March delivery at 347s. 6d., and May at 325s.

WOOD OIL.—In the absence of spot stocks the price of Hankow is nominal at 105s. per cwt.; for delivery at the end of the month 102s. is quoted, while for January-February shipment 95s. to 97s., c.i.f. is asked. The troubles in China and the heavy losses by importers are responsible for the scarcity.

Essential Oils

A QUIETER demand is reported this week, and there are fewer price changes to report. Ceylon citronella oil still advances but Java is unchanged. Sicilian oils are generally dearer. Palmarosa and West Indian lime are very firm. Star anise and Japanese mint are cheaper. Safoi is easier.

ANISE (STAR).—"Red Ship" has been sold in retail lots at 2s. 2d. per lb. on the spot. For a line 2s. would be accepted. The price for shipment is lower at from 1s. 9½d. to 1s. 9½d. c.i.f.

BERGAMOT is advancing at the source on last week's figure by 6d. to 1s. 6d. per lb., current quotations for best brands of 37 to 39 l.a. being respectively 11s., 11s. 6d., and 12s. per lb., c.i.f. On the spot there are sellers at 11s. 6d. to 12s. per lb., according to brand.

PALERMO. February 2.—The heavy decline which this article has undergone, and the ease with which it was possible to find ready sellers at declining prices, seems to have encouraged local speculators and some export houses to undertake heavy blank engagements. This state of affairs appears to have brought about a change, for suddenly sellers have disappeared, and although there are buyers at 10 per cent. or 15 per cent. above the bottom price reached it is impossible to secure from sellers an option on goods at any price. It is improbable that there will be any return to more normal market conditions until the short sellers have been badly squeezed.

BIRCH, SWEET.—Direct shipment, guaranteed genuine American, is quoted at 10s. 6d. per lb. on the spot.

BOIS DE ROSE (FEMELLE).—Spot holders quote 9s. to 9s. 3d. per lb., which is unchanged.

CAJUPUT on the spot is quoted at 3s. 9d. to 3s. 10d. per lb. An arrival of 50 cases has taken place this week from Java.

CAMPOR.—White essential is quoted on the spot at 85s. per cwt. in cases. A few cases of brown are held for 72s. 6d., but for shipment near at hand 67s. landed is quoted.

CASSIA on the spot is steady for 80 to 85 c.a. at from 8s. 3d. to 8s. 6d. per lb. For shipment afloat, near at hand 7s. 3d. c.i.f. is the value, and 7s. for distant.

CITRONELLA.—Ceylon has improved further on the spot and 3s. 3d. per lb. is reported paid. Up to 3s. 6d. is asked in some directions. Resale parcels are quoted at 3s. c.i.f. February shipment. Java on the spot is steady at 3s. 6d.

CLOVE.—English distilled is quoted from 6s. 9d. to 7s. 3d. per lb., less 2½ per cent. for immediate delivery.

CORIANDER.—On the spot 75s. per lb. is quoted.

GERANIUM.—Only small lots of Bourbon are offering on the spot at 26s. 6d. per lb. For shipment from 22s. 6d. to 23s. c.i.f. is quoted.

LEMON.—Prices quoted to come forward are tending firmer, shippers' prices ranging from 2s. 6d. to 2s. 10d. per lb. c.i.f. On the spot 2s. 8d. to 2s. 11d. represents current ideas of value.

PALERMO. February 2.—New crop returns have been poor during January, as pressing operations began much later even than had been anticipated. Consequently, the output of new crop lemon oil has been much inferior not only to expectations but also to local and export requirements that had been contracted for, January shipment. There has been a rush to cover during the last fortnight, and important parcels both of new and old crop changed hands at continually increasing prices. There does not appear to be any reason why, after all the January requirements have been covered, prices in Italian lire should remain on the present level, and somewhat lower figures are expected during February.

LEMONGRASS.—Cochin is steady on the spot at 2⁹/₁₆ d per oz. and 23³/₄ d. c.i.f.

LIME.—West Indian distilled has been sold up to 2s. 11d. per lb., at which there are sellers.

LINALOE.—Mexican wood oil is dull and quoted at about 10s. to 10s. 6d. per lb.

MANDARIN.—Offers vary considerably, according to brand, but 15s. 6d. to 18s. 6d. per lb. is about the general figure.

MINT.—Japanese dementholised Kobayashi-Suzuki is cheaper at 6s. 10¹/₂ d. to 7s. per lb. For shipment 6s. c.i.f. is quoted.

ORANGE.—Sicilian sweet ranges from about 8s. to 9s. per lb. c.i.f. for shipment according to brand. On the spot 8s. 6d. to 9s. 3d. is about the average quotation. West Indian sweet on the spot is quiet at 8s. 6d. per lb. The latest price mentioned for shipment was 7s. 6d. c.i.f., but no offers are coming through. Owing to the cheapness of the Sicilian oil, however, there is no buying interest at present.

PALMAROSA is again scarce on the spot, entire pots being apparently cleared. The forward position is firmer at from 16s. 6d. to 16s. 9d. per lb. c.i.f.

PATCHOULI.—Offers of Java oil at low rates are affecting the sales of genuine Penang, which is still quoted at from 30s. to 32s. 6d. per lb. and upwards. Mysore is unchanged at 14s.

PEPPERMINT.—American natural tin oil is obtainable at from 13s. 3d. to 13s. 6d. per lb., on the spot. In one direction 14s. is asked.

ROSEMARY.—Spanish is steady at 1s. 7d. per lb. for drums on the spot. Cases are quoted up to 1s. 10d.

SASSAFRAS.—Genuine American, quoted at 5s. per lb., can be shaded for a quantity.

SPEARMINT.—American is steady at 12s. per lb. on the spot.

SPIKE.—Spot sales of Spanish are reported at 2s. 10d. per lb., which is the price quoted for drum lots.

THYME.—Spanish red, 28 to 30 per cent. phenols, is steady at 5s. per lb.

WORMSEED.—The spot quotation has been further advanced to 19s. 6d. per lb. in some directions.

Aromatic and Synthetic Chemicals, etc.

BENZALDEHYDE, f.f.c., which has been selling well, is quoted at from 3s. to 3s. 3d. per lb. **BENZYL BENZOATE** is offered at 2s. 6d. **CITRAL** is quoted at 10s. 6d., and a commercial variety is offered at 6s. 9d. British-made **LINALOL** is quoted at from 17s. 6d. to 20s., and **LINALYL ACETATE** at from 20s. to 22s. French quality of these is offered at about the higher figure. **SAFROL** is cheaper for drums at 2s. 7d. and 2s. 9d. per lb. for tins in cases. **TERPINEOL** is firm and up to 3s. is now quoted. Fair sales have been reported at 2s. 10d. **VANILLIN** is offered at 22s. 6d. to 23s. per lb. as to seller.

Pharmaceutical Chemicals, etc.

BUSINESS has been hanging fire on spot this week, and a lack of inquiry is the general complaint. Spot holders' quotations are in most cases steadily maintained and advances are anticipated, owing to the position on the Continent. Already some products have moved in this direction, such as sodium salicylate, phenazone and hexamine. Bromides are very irregular; while some holders are asking 8d to 9d., others are quoting at 6d. to 7d.

per lb. for large parcels. Supplies are coming through from Germany fairly well, but most of the imports have been from Hamburg. It is doubtful whether much more will come along from the works in the interior.

ACETANILIDE on the spot remains quiet with offers plentiful from 1s. 5d. per lb., and upwards, but there is little call at present.

AMIDOPYRIN remains idle with the spot value declared at 12s. 6d. to 13s. per lb.

APIOL.—Makers' prices have been reduced by 2s. per lb. to 24s., and slightly less for quantity.

ASPIRIN is a healthy market, and the quotations of 2s. 9d. to 2s. 10d. per lb. are firm.

BARBITONE has met with little demand, but holders are steady in the region of 12s. 6d. per lb.

BENZOIC ACID.—B.P. is unchanged at 2s. to 2s. 3d. per lb., and some importers look for higher rates, before long.

BROMIDES.—The spot position is rather doubtful. Some offers are at very cheap rates in the region of 6d. to 7d. for potassium and sodium; others are quoting at 8d. per lb. There appears to be plenty of material on spot and not much likelihood of anything in the way of higher rates for some time. The demand has been very limited. Ammonium could be obtained at 8d. on spot, with others asking up to 9d. per lb. Cheap parcels have been secured from Germany, but they have been obtained from second-hands. The makers' prices are out of the market for the time being.

CALCIUM LACTATE remains steady on a quiet market at 2s. per lb.

CHLORAL HYDRATE is steady at last week's higher rates of 4s. to 4s. 3d. per lb., but there is not much demand.

CHLOROFORM.—Makers' prices of pure B.P. are: 10 cwt., 2s. 3¹/₂ d.; five cwt., 2s. 4¹/₂ d.; two cwt., 2s. 5¹/₂ d.; and 50 lb., 2s. 6¹/₂ d. per lb. net cash.

CITRIC ACID.—B.P. crystals have met with some little inquiry, and moderate business for forward positions continues to be done in the region of 1s. 7d. per lb., less 5 per cent. The spot price is 1s. 8d. per lb.

COCAINE meets with a steady demand at from 14s. 6d. to 15s. per oz. for hydrochloride, and slightly more for small lots.

CREOSOTE.—B.P. remains quiet with the spot quotation at 2s. 6d. per lb.

CREOSOTE CARBONATE is seldom called for; the declared value on spot is nominal at 10s. per lb.

EMÉTINE SALTS.—Makers have reduced the price of hydrobromide to 1s. 8d., the hydrochloride to 1s. 10d., and the alkaloidal to 2s. 10d. per gram.

EUNOYMIN.—Makers have advanced their list price to 24s. per lb. for green and brown.

GLYCERIN.—Business has been quiet of late, although prices of Continental crudes have been advanced in consequence of the respective depreciated currencies. It is felt, however, that values should be on a higher plane, and some foreign makers have been obtaining better prices for the few lots coming on to the market. Distilled qualities have been in fair demand for the home trade. The basis price for chemically pure s.g. 1.260 remains at 82s. 6d. per cwt. in five-ton lots and upwards in 10-cwt. drums, and 90s. per cwt. in 56-lb. tins and cases.

GUAIACOL CARBONATE on spot is at 8s. per lb., with the market idle.

HEXAMINE has again advanced this week, and most spot holders are asking up to 3s. 9d. and 4s. per lb. The Continental position is very firm, and spot rates may go still higher. Hamburg quotes 2s. 8d. f.o.b. Hamburg.

HYDROQUINONE is maintained at the level of 3s. 3d. to 3s. 6d. per lb., but the market is almost inactive.

HYOSCINE.—Makers quote the hydrobromide salt at 1s. 10d. and the hydrochloride at 2s. 10d. per 15 grains, which is a slight reduction on previous prices.

LEPTANDRIN.—Makers have advanced their price 3s. per lb. to 15s. per lb.

METHYL SALICYLATE is very steady as quoted on spot in the region of 2s. 3d. per lb.

METHYL SULPHONAL is still stagnant with the spot value declared at 13s. per lb.

MILK SUGAR.—The average price for small lots of B.P. powder of Continental make is about 100s. per cwt.,

and for quantity 2s. 6d. to 5s. less could be accepted. New Zealand, which is equal in quality to the best Continental or American make, can also be had at about 100s. The American price has been rising for some time past at 22c. to 23c. in barrels.

MORPHINE.—Makers have reduced the alkaloid and several of the less important salts by 1d. per oz., and now quote the alkaloidal crystals at 11s. 2d., precip. at 10s. 11d., morphine bromide at 10s. 11d., meconate 10s. 11d., and tartrate at 10s. 11d. Hydrochloride is unchanged at 8s. 9d. and crystals at 9s.; sulphate is also unchanged at 8s. 9d. and cryst. at 9s. per oz. net.

PARAFORMALDEHYDE is obtainable on spot at about 3s. to 3s. 3d. per lb.; some little business has been done at the former figure.

PARALDEHYDE is quoted at 1s. 5½d. to 1s. 6d. per lb. on spot, and the market seems a shade firmer on account of advances on the Continent.

PHENACETIN stands at unchanged rates on spot at 5s. per lb., with the market firm. New imports cannot be repeated at this price.

PHENAZONE is available on spot at 7s. per lb.; some holders have put their price up to 7s. 3d.

PHENOLPHTHALEIN can be obtained at 5s. per lb. on the spot; there has not been much inquiry.

PILOCARPINE SALTS are slightly cheaper, makers quoting the hydrochloride at 24s. and nitrate at 22s. per oz.

POTASSIUM IODIDE.—Makers quote 15s. 8d. per lb. in cwt. lots, 15s. 11d. in 28-lb. lots, and 16s. 2d. in 14-lb. lots. Demand is good.

POTASSIUM PERMANGANATE.—B.P. is very steady at about 8½d. per lb. for spot; the demand has been quite good of late.

RESORCIN is offering at 5s. 6d. per lb., with only a few sales made; the price is not firm.

SALICYLIC ACID tends to "firm up" to the higher quotation of 1s. 6d. per lb., but some spot offers are at cheaper rates.

SALOL on spot is quoted at 2s. per lb., with very little buying.

SILVER NITRATE.—The prices of crystals on February 7 were based on a metal price of 30½d. per oz. as follows: In quantities of 25 oz., 2s. per oz.; 50 oz., 1s. 11d.; 100 oz., 1s. 11d.; 250 oz., 1s. 10½d.; 500 oz., 1s. 10d.

SODIUM BENZOATE.—Little is offered on spot below 2s. per lb., which shows a slight advance on the week. The position seems to be firmer all round and some are asking 2s. 2d. per lb.

SODIUM SALICYLATE.—The cheapest offer seen on spot this week has been at the higher price of 2s. per lb. for either powder and crystals. At this level the market seems firm, and some ask 2s. 1d. for finest crystals.

STRYCHNINE.—The makers of strychnine and salts have reduced their prices by 6d. per oz., and now quote as follows: Alkaloidal crystals, 4s. 3d. per oz.; precip., 4s. 2d.; arseniate, 3s. 7d.; bisulphate, 3s. 1d.; hydrochloride, 3s. 6d.; hypophosphite, 5s. 6d.; nitrate, 3s. 6d.; phosphate, 4s.; and sulphate, 3s. 3d. per oz. net.

SULPHONAL is unchanged on a dull market as quoted at 12s. 6d. per lb.

TANNIC ACID.—Leviss is steady but in little demand at 3s. 6d. per lb.

TARTARIC ACID is fully maintained at 1s. 2d. per lb., and tends to advance somewhat. A fair business has been done.

TERPENE HYDRATE is unaltered on the week on a quiet market at 1s. 9d. per lb.

The following are current spot quotations of miscellaneous chemicals:—Vanillin, 22s. to 23s. 6d. per lb.; coumarin, 12s. 6d. per lb.; bismuth carbonate, 13s.; citrate, 11s. 7d.; nitrate 6s. 11d.; oxide, 14s. 5d.; salicylate, 10s. 3d.; subchloride, 12s. 8d.; subgallate, 9s. 6d., and subnitrate, 11s. per lb.

Industrial Chemicals, etc.

A MUCH quieter tone is reported throughout this market and the falling-off of inquiry is generally remarked upon. Prices show practically no change, but the opinion still exists that prices must advance for many products owing to the position of supplies from the Continent and the higher rates now coming to hand from that quarter. So

far, the spot market has not been affected, and this is probably due to some extent in the poor demand experienced for the rather heavy stocks on hand.

ACETIC ACID has been coming in from the Continent rather heavily recently and fair stocks are now on hand, but there is a continued steady demand and prices are fully maintained at level rates: 80 per cent. technical, about £43 10s.; 80 per cent. pure, £44; 98 per cent. glacial, £60 in casks and £65 to £67 in demijohns, ex wharf, London. The question of further supplies coming from the Continent is causing some anxiety, and may mean the market advancing should supplies fail.

ACETONE.—British Government specification is as reported last week. The spot price is firm at £130 per ton, with very little on offer.

ARSENIC.—The aspect of the market is rather obscure, although it is more than ever dominated by a marked scarcity. White Cornish powder varies at this end from about £70 to £71 10s., but in the northern markets quotations range up to as much as £75, which probably relates to limited quantities. American trade requirements continue on a large scale, and the price there is reported at about 15½c. per lb. At the moment there is nothing fresh heard of as regards Continental offers for future delivery.

BARIUM CHLORIDE is offering on spot at about £17 per ton for 98 to 100 per cent., with the Continental quotation about £15 10s., f.o.b.

BLEACHING POWDER has been little called for. Spot offers are at about £11 per ton for 35 to 37 per cent.

CHALK, PRECIPITATED.—Finest quality is quoted at from £22 to £25 per ton carriage paid U.K. in free bags.

COPPER-SULPHATE.—The tendency seems quite firm, but export business is far from active, this being largely attributed to the seriously dislocated state of the Continental exchanges. Buyers are evidently postponing orders as long as possible in the hope of less onerous exchanges. Makers' quotations stand at £26 10s. to £27, f.o.b., for casks, less 5 per cent., and bags cost £1 a ton less.

CREAM OF TARTAR is firm on spot from 92s. 6d. and upwards per cwt. in one-ton lots; there has been a fair demand. Offers for forward delivery in big lots are at about 85s., c.i.f. U.K.

FORMALDEHYDE is a healthy market, with fair business about; the spot price is steadily maintained at about £90 per ton, ex wharf, London.

GLAUBER'S SALT finds little business, and the prices are not too steady as quoted in the region of £3 12s. 6d. to £4 per ton, in bags.

LEAD-PRODUCTS.—The progress of business in home material has been rather hindered by the further advances enforced last week on the further big rise in raw material, the price of which since reacted sharply. Current quotations for pigments are as follows: Red lead and litharge, £42 10s. a ton for home and export; white lead in oil £53 15s.; and dry white lead, £45, the two latter being f.o.b. for export.

LITHOPONE has met with a fair demand and rates have been much steadier at about £20 to £20 10s. per ton for 30 per cent. Continental red seal.

OXALIC ACID has quietened down, but the spot price is, so far, maintained at about 7d. per lb.

PERSULPHATES.—Ammonium (95 per cent.) is quoted at 175s.; 98 to 99 per cent. at 185s.; potassium, 97 to 98 per cent., 95s.; and sodium, 85 to 95 per cent., at 32s. per cwt. net, ex wharf London, duty paid in five-cwt. casks.

POTASSIUM BICHROMATE is in limited demand as quoted at 6d. per lb.

POTASSIUM CARBONATE is in good supply on spot, with rates fully maintained and the market fairly active. The position on the Continent indicates higher rates: 90 to 92 per cent., £27 per ton; 96 to 98 per cent., £29 10s. to £30 per ton.

POTASSIUM CHLORATE is now somewhat steadier after the recent series of reductions in price, but the demand is still rather light; spot 3d. per lb.

POTASSIUM PERMANGANATE continues to be inquired for, but there is not much commercial quality about. The price is firm in the region of 7½d. to 8d. per lb.

SODIUM PRUSSATE seems very steady at the old rate of 5½d. per lb., and a fair demand has been received in this week.

POTASH CAUSTIC on the spot is maintained firm at £29 10s. £30 per ton on account of the strong position on the Continent, where further advances are expected.

POTASH CAUSTIC.—Dealers still complain there is little business about. Their quotations are unchanged at: 70 to 71 per cent., £19 10s.; 76 to 77 per cent., £21 10s. per ton, wharf, shipping port. British makers' prices to domestic consumers on contract are at: 70 to 72 per cent., £19 10s.; 76 to 77 per cent., £21 10s. per ton, in drums, freight paid.

SODIUM HYPOSULPHITE is now steady and no further line in value is looked for; on the other hand, something in the way of an advance is not at all unlikely from the Continent. Spot pea crystals, in 1-cwt. kegs, £15 to 16s. 10s. per ton; commercial quality, about £10 per ton, in casks.

SODIUM PRUSSATE remains dull and rather weak; the spot offer is still at about 9d. per lb., with business very all.

SODIUM SULPHIDE for all grades is unaltered on the week, the market quieter. 60 to 62 per cent. solid, £16 to 16½s.; ditto, broken, £17 per ton, in drums; 60 to 65 per cent. concentrated, £16 10s., in casks.

ZINC-PRODUCTS.—There has been just lately some action in the price of raw zinc, the premium on prompt delivery being a good deal less than it was recently, and the forward market is also weaker, but stocks are very limited, despite the increasing production in America. There has been a steady demand for zinc oxide, and rather fancy figures have been asked in some directions for small lots, but large makers' terms quotations for fair quantities, free on board, are about as follows: White seal, £46 to £48; green seal, £44 to £46; and red seal, £43 10s. to £44 10s. per ton. Continental competition is not quite so keen as it was, but quite considerable lines are coming along from Belgium and Holland. Zinc ashes are firm at about £4 10s. per ton, based on 70 per cent. Australian zinc dust stands at £52 10s., and other descriptions, including American and English, are worth £50.

COAL TAR PRODUCTS, ETC.—Pitch, again this week, has advanced very sharply, with the market exceedingly firm owing to lack of supplies to meet the continued good demand. Carbolic acid crystals are also at higher rates once more. Other products show no change on the week, with the market generally slow. **ANILINE OIL** and **SALT** remain nominal on inactive markets at 11d. per lb., packages free. **BETANAPHTHOL** remains neglected, with the declared value at 1s. 4½d. per lb. **PITCH** is now quoted in London up to as high as 160s. per ton, but it is difficult to obtain supplies even at that figure. A good inquiry is on hand. **PURE METHYL ALCOHOL** is still quoted at £110 per ton, ex wharf, London, but this rate seems likely to weaken. **CARBOLIC ACID CRYSTALS** are limited in supply, with the demand quite brisk. The price is now firm at about 9½d. per lb., with the market firm. **CREOSOTE OIL** is fully maintained at 8½d. to 8¾d. per gallon, barrels free. **PYRIDINE** is declared at 12s. per lb., but there are no buyers at that level. **HEXAMETHYLENE** is very steady and meeting with some demand at about 3s. per gallon. **NAPHTHALENE** is unchanged on a quiet market at £17 per ton. Crude, £5 to £8 10s.; crystals, £16; powder, £16; balls, £24; candles, £28; tablets, £28 per ton, packages free. **DISINFECTANTS** are still offered at 3s. 9d. per gallon, barrels free, but meet with little demand.

Fixed Oils, etc.

PALM OILS have again been active, and still higher rates are now current. Coconut oils are easier on a dull market. Linseed oil is an improved market. Turpentine continues quiet, with prices tending downwards. Other products are unchanged on the week, with a rather quieter tone on the market. **ACID OILS** have been fully maintained with business good; coconut, 34s. 6d.; palm-kernel, 34s. 6d.; groundnut, 34s. **COCONUT OIL**: A slightly easier tone is recorded and current prices for all grades show a decline: deodorised, 45s.; Ceylon, 42s. 6d.; Cochin, 45s. **COTTONSEED OIL**: A very steady

tone is maintained and rates for all grades are unchanged: deodorised, 46s.; common edible, 44s.; soap-making, 41s.; crude, 38s. **GROUNDNUT OIL**: Deodorised at 55s. and crude Oriental at 47s. are level on the week, with the market steady. **LINSEED OIL**: Rates for naked raw dropped back a little early on in the week, but have since recovered and close on a firm market at a slight premium; business has improved a little. On spot, 41s. 3d.; February-April, 39s. 6d. per cwt.; May-August, 35s. Hull, on spot, 41s. 6d.; February, 39s.; March-April, 36s. 9d.; May-August, 34s. 9d. The much better supplies of seed on the way point to relief being experienced by crushers at no distant date, but America once again is playing an important part in the absorption of the new seed in the River Plate. **PALM-KERNEL OIL**: There has been a much improved demand, and prices have appreciated a little, recovering the drop recorded last week: Deodorised, 44s.; crude, 38s. **PALM OIL**: During the week the demand for all grades has been quite active, and rates have gradually advanced and at the close a very firm tone was recorded: Lagos is up to 36s.; Softs have risen to 35s. 6d., and hards to the high level of 38s. **RAPE OIL** is as last reported, with rates unchanged on a dull market: Refined, 47s.; crude, 43s. **SOYA BEAN OIL**: At the lower rates quoted this week the market closes firm: Deodorised, 44s. 6d.; crude Oriental, 38s. **TURPENTINE**: There has been but little real business in American during the week, and the tone has been generally dull and weak. The market closed at the lower rates of 101s. for spot and 101s. 9d. for February-April.

German Chemical Markets

The repercussion of recent events on the chemical trade in Germany is dealt with elsewhere in this issue. The fall of the mark has been accompanied by the usual increase in orders from abroad, which seem to concentrate on a limited number of products. Prices in Germany range within fairly wide limits, according to locality and stocks available on the spot. A comparison of the changes in prices for the inland market over a period of eight days shows that the various articles are affected in varying degrees by the progressive depreciation of the mark. Thus, while acetanilide, acetylsalicylic acid, chloroform, glycerin, and drugs such as senega, ipecacuanha and cinchona show no change, other products have doubled, and even trebled in price, e.g., cocaine hydrochloride has advanced from m.2,577,850 to m.5,123,500; pepsin Ph.G.V. from m.5,275 to m.15,675; bismuth subnitrate, from m.105,740 to m.210,160, while others show only a slight change—potassium bromide from m.2,000 to m.2,800. Where not otherwise stated, the following prices are for one kilo:—

ACETIC ACID, 80 per cent., has been in brisk demand, and in some places local stocks have been almost cleared. Price m.3,000; for export, £42 per ton.

ANETHOL.—A Hamburg wholesale drug house offers 200 kilos of original Schimmel brand at 6s. 5d. per kilo, inclusive.

BALSAM PERU.—Genuine original is unchanged at \$4. Ph.G.V. quality is in good demand, although the price has advanced from m.15,000 to m.30,000, and even m.48,000 is being quoted. For export, 7s. per kilo.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, has been in considerable demand during the past month, and now fetches m.6,700 to m.7,500, according to quantity.

BENZOIC ACID and **SODIUM BENZOATE**.—Advertisements of buyers for both products are to be found in the trade and daily papers, no prices being mentioned.

BROMINE.—The price for bromine containing not more than 0.3 per cent. of chlorine is now m.2,000 f.o.b. Hamburg.

CAFFEINE.—Stocks are very low, and the price has doubled in one week; it is quoted at figures ranging from m.110,000 to m.240,000. For export the price is 25s. per kilo.

CITRIC ACID has declined, owing to cheaper Italian quotations, to lire 19.50 for inland use and for export. From January 24 to 31 the price in marks rose from 22,440 to 44,595.

COUMARIN.—The price follows the vagaries of the exchange, while the export price is dictated by special conditions.

CREAM OF TARTAR (98-100 per cent.) is quoted at m.6,500; the export price is \$46 per 100 kilos.

GLYCERIN.—Chemically pure, 28° Bé, has been in brisk demand for export at \$35 per 100 kilos, exclusive of containers. For Germany, m.7,500 to m.9,050.

MENTHOL.—New arrivals have caused the price to decline to 38s. per lb.

MILK SUGAR.—Local stocks are now running very low, and some uncertainty exists as to the future position of this article. The price for Germany is m.3,400.

OXALIC ACID.—The export price is being quoted in two currencies: fl.48 per 100 kilos, and £39 to £40 per ton. Price for Germany, m.4,350 to m.4,500.

PHENOLPHTHALEIN.—Stocks in dealers' hands are very low. Offered at m.35,000; large quantities have been purchased in Hamburg for export at 7s. per kilo.

QUININE SULPHATE PH.G.V.—Offered for export below Convention price at £4 per kilo.

SALICYLIC ACID is offered at m.9,200 to m.9,900 (Riedel), according to brand. For export the price is 2s. 1d. and 2s. 2d.

SANDALWOOD OIL.—Now fetches m.300,000, and even m.430,000 is quoted; West Indian oil is cheap at m.70,000.

SANTONIN.—The price for export is £79 per kilo.

SPERMACELE.—Is offered at the advantageous figure of 1s. 8½d. per lb.

TARTARIC ACID has advanced from m.14,560 to m.28,940, and is now quoted at fl.1.45, also for export.

VANILLIN is still in brisk demand, and in spite of its high price large sales have been effected. Quoted at m.210,0.0. Considerable amounts have been purchased by foreign buyers at 47s. per kilo.

Italian Drug and Chemical Markets

Genoa, February 1.

DURING January there was a very strong advance in the foreign exchange, which brought the English pound from lire 94.50 to lire 98.10, and the United States dollar from lire 21.60 to lire 22. Although the above conditions should have raised the prices of chemicals very few increases were made, and some prices even declined, through the slight demand. The complications created by the invasion of Germany by France and Belgium rendered buyers very cautious, it not being known what might follow. A new commercial treaty was signed with Switzerland, which is intended to facilitate an exchange of products. With a Royal decree that came in operation with the beginning of January, the Minister of Finance arranged the following official prices (in gold lire per kilo) for custom tariff purposes on importation, in lieu of those of June 23, 1921:—Essential oils of musk pear 375, angelica 300, calamus 15, chamomile 350, cinnamon 75, cardamom 135, caraway 30 (formerly 25), cumin 75, fennel 18, geranium 75, juniper 20, laurel berry 35, lavender 50, rosewood 95, sassafras 15, mace 25, marjoram 25, myrtle 35, neroli 950, nutmeg 25, opoponax 120, origanum 18, patchouli 125, periwinkle 35, petitgrain 40, rosemary 6, sage 20, mustard seed 40, vetiver 90, ylang ylang 115, ginger 45 (was 70), all others 120. The following prices were arranged (in lire per kilo) for terpeneless essential oils:—Ordinary anise 25, anise star 12, bitter orange 900 (was 685), sweet orange 925, bergamot 112, cinnamon bark 120, lemon 375, citronella 25, fennel 33, clove 42, geranium 200, lavender 100, lemon-grass 30, limonene 150, linaloe 115, mandarin 2,120, peppermint 75, neroli 3,500, petitgrain 125, rose 3,250, rosemary 20, all others 400. For the synthetic perfumes and constituents of unnamed essential oils the following prices were arranged (in lire per kilo):—Synthetic acacia 125, synthetic amber 100, synthetic jasmine 150, synthetic geranium 25, synthetic mimosa 125, synthetic neroli 175, synthetic rose, 200, synthetic violet 200, benzyl acetate 8, geranyl acetate 45, linalyl acetate 65, benzyl alcohol 10, cinnamic alcohol 100, phenylethyl alcohol 50, anise aldehyde (aubepine) 38, cinnamic aldehyde 25, anethol 12, methyl anthranilate 20, benzyl benzoate 10, citral 38, citronellol 50, coumarin 30, heliotropine 22, diphenyl ether 6, eucalyptol 10, eugenol 40, geraniol 35, ionone 90, isoeugenol 60, linalol 55, menthol 70, artificial musk 80, nerolin 8, saffrol 8, amyl salicylate 12, methyl salicylate 6, terpineol 5, thymol 55, and vanillin 100. For alkaloids the following prices were fixed (in lire per kilo):—Aconitine 2,500, apomorphine 750, atropine 600, atropine sulphate 550, berberine hyd. 300, berberine sulphate 300, brucine 75, brucine nitrate 65, brucine sulphate 65, caffeine 40, caffeine benzoate 38, caffeine citrate 38, caffeine salicylate 38, capsicum 225, cocaine 450, cocaine hyd. 480, codeine 475, codeine phosphate 320, codeine hyd. 375, codeine sulphate 375, colchicine 2,025, colchicine salicylate 2,050, cotarnine hyd. 250, diacetyl morphine 500, emetine hydrochlor. 2,000, eserine 2,500, eserine hydrochlor. 1,050, eserine salicyl. 1,050, eserine sulphate 1,950, ethyl morphine 620, hyoseyamine 1,620, hyoseyamine hydrobrom. 1,600, hyoseyamine sulphate 1,600, pelletierine 2,500, pelletierine sulphate 2,200, hydrastine 4,025, hydrastine hyd. 4,025, morphine 370, morphine acetate 290, morphine hyd. 295, morphine sulphate 295, narcotine hyd. 800, narcotine sul-

phate 800, homatropine 2,350, homatropine hydrobrom. 2,000, homatropine hydrochlor. 2,000, papaverine 135, papaverine hydrochlor. 135, pelletierine tannate 500, pilocarpine 1,250, pilocarpine hydrochlor. 750, pilocarpine nitrate 725, scopalamine hydrobrom. 1,600, scopalamine hydrochloride 1,600, scopalamine sulphate 1,600, solamine 1,050, solamine hydrochlor. 1,200, sparteine 250, sparteine sulphate 75, strychnine 275, strychnine arseniate 225, strychnine cacodylate 250, strychnine hydrochlor. 225, strychnine hypophosphite 300, strychnine nitrate 210, strychnine sulphate 200, theobromine 40, tropacocaine 1,000, veratrine 225, veratrine hydrochlor. 225, veratrine sulphate 225, agaricine 50, aloin 20, cantharidine 3,750, digitalin 28,500, euonymin 55, salicin 50, saponin 65. The following prices (per kilo except where otherwise stated) were current on the Genoa market:—

| | Lire. | | Lire. |
|------------------------|----------------|-------------------------|----------------|
| Acetylsalicylic acid | 45 to 55 | Morphine hydrochl. | 2,000 to 2,500 |
| Amidopyrin | 200 to 225 | Opium 10%, Smyrna | 120 to 140 |
| Ammonium bromide | 10 to 11 | Phenacetin | 100 to 110 |
| Antipyrine | 120 to 150 | Potass. brom. cryst. | 8 to 9 |
| Benzonaphthol | 103 to 120 | Potass. iodide | 175 to 180 |
| Boric acid, crystals | | Potass. sulphoguaiaic | 110 to 120 |
| and powder | 810 to 880 | Quinine hydrochlor. | 580 to 600 |
| Boric acid, flakes | 830 to 850 | Quinine sulphate | |
| Caffeine, pure | 180 to 200 | and bisulphate | 480 to 500 |
| Calcium glycerophosph. | 50 to 60 | Resorcin | 65 to 75 |
| Camphor, Japanese | 48 to 50 | Salicylic acid | 12 to 14 |
| Castor oil, medicinal | 7 to 8 | Salol | 50 to 60 |
| Chamomiles | 8 to 10 | Sodium benzoate | 14 to 16 |
| Chloral hydrate | 80 to 90 | Sodium bicarb. (ton) | 1,800 to 1,900 |
| Chloroform | 16 to 18 | Sodium bromide | 10 to 11 |
| Citric acid, crystals | 19 to 20 | Sodium glycerophosphate | 19 to 21 |
| Cocaine hydrochlor. | 2,200 to 2,500 | Sodium methylarsenate | 250 to 260 |
| Codeine, pure | 3,000 to 3,500 | Sodium salicylate | 18 to 20 |
| Cresote, wood | 40 to 50 | Strychnine nitrate | 1,100 to 1,200 |
| Guaiacol carb. | 160 to 180 | Tannic acid, leviss | 40 to 50.50 |
| Guaiacol crystals | 150 to 160 | Tartaric acid, crys. | 13.50 to 14.10 |
| Guaiacol pure | 60 to 80 | Tartaric acid, pwd. | 13.60 to 14.10 |
| Hexamine | 90 to 100 | Terpene hydrate | 30 to 35 |
| Hydroquinone | 40 to 50 | Theobromine, pure | 200 to 220 |
| Iodine, resublimed | 210 to 215 | Thymol | 200 to 225 |
| Linseed meal, pure | 2,50 to 3 | Vanillin | 340 to 380 |
| Magnesia, calcined | 9 to 11 | Vaseline | 8.50 to 9.50 |
| Menthol | 400 to 425 | Zinc oxide | 5 to 6 |
| Methyl salicylate | 28 to 30 | | |
| Milk-sugar crystals | 17 to 18 | | |

German (Reparation) Recovery Act

IN the course of their Bulletin (No. 49), the British Chemical Trade Association advise that members should exercise care when purchasing goods from Holland. H.M. Customs have recently laid down a fresh ruling under the above Act that German goods purchased in Holland, upon importation into the U.K., are liable to the 26 per cent. duty, unless they were actually in Holland and entered into the trade of that country prior to the date the order was given by the British importer. For instance, if an order is given to a Dutch firm and they pass it on to a German house (whether the goods are consigned from Germany direct to the U.K. or from Germany to Holland and thence to the U.K. is immaterial), they may be deemed liable to the duty under this new ruling. It will be seen that an importer might buy from a Dutch firm and pay the full value of the goods. The question arises, from whom is the British importer to obtain repayment of the 26 per cent. duty? In purchases from German firms Customs receipt for 26 per cent. of the total value is, of course, tendered and accepted, but it is hardly likely that Dutch firms will accept part payment by way of such receipt, for it is certain the German Government would not recognise their claim. It seems that trade with Holland will be seriously interfered with, and already importers have had to produce evidence from their Dutch suppliers that the German goods exported by them to the U.K. were in their hands as stock previous to receiving the British order. The evidence asked for by Customs was the German invoice for the goods in question made out to the Dutch firm. This may not always be available, in which case it may be taken that Customs would consider the goods German and levy the duty. It was clearly understood that this duty was levied on all goods leaving Germany for destinations other than the U.K. at the time they crossed the German border. When this fact was pointed out to Customs they made the astonishing reply that they were unaware of what happened in this respect. The Association has appealed to Customs for a definite and workable ruling on this matter. It would be as well to state, when purchasing goods from Holland, that if the goods are of German origin, evidence that they were the property of the Dutch exporter prior to receipt of the British order should be forwarded, and if they had not entered into the trade of Holland prior to receipt of the order, they (the Dutch exporters) must make arrangements with the German suppliers to accept the British Customs receipt of 26 per cent. as part payment.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Price Protection Schemes

SIR,—Whatever may be the position of the manufacturer, it is clear from the discussion on the question of profits on proprietary medicines, that the retailer is not overpaid for his part in the transaction. Mr. Nicholson's comparative tables show a wonderful coincidence in the net amounts, whether the stamp duty is deducted from the face value or not; but he starts with the presumption that the proprietor would allow 30 per cent. discount if the duty were deducted first; whereas I think that, if such a course were adopted, in practice he would find that the manufacturer would expect to adhere to the 25 per cent. allowed at present, which would make the retailer's share very much less in proportion, and, in fact, on a fifteen-penny size it would come below the cost of handing over. "Xrayser II." gives an instance (*C. & D.*, February 3, p. 157) of a lecturer who gave fourpence per article as the cost of advertising; considering that the advertising experts and the big advertisers claim that the cost of advertising does not add to the expense of the goods, but tends to cheapen the cost of production, I should think that this argument was a very weak one. As "A. Macksee" remarks, the patent-medicine traffic does not stand on its own legs.

Yours faithfully,

"DISCOUNTED" (5/2).

SIR,—We thank your correspondents for the interest which their courteous communications show towards our letter in your issue of January 27, and before replying would like to state distinctly that we are not out to deprive either the retailer or wholesaler of one fraction of their fair profit, but to find, if possible, a just and equitable distribution of the profit between them and the manufacturer. Mr. Nicholson says he does not think our figures give a fair account of matters, though we fail to see where his own do any better. He simply takes off the cost of the stamp and puts more discount on the article itself, thus bringing the amount left for the manufacturer exactly the same as our figures—surely a distinction without a difference. Mr. Macksee writes: "Why do we not stick to our opinion and knock off the cost of the stamp before deducting the discounts?" The answer is obvious, viz., that the P.A.T.A. rules do not admit of it. The same writer also states that the patent-medicine traffic as it is marketed to-day does not stand on its own legs, but is propped up by other sections of the business turnover. Mr. Nicholson writes that the 3½d. gross profit allowed by the P.A.T.A. on a 1s. 3d. article is quite justified, especially when one considers the sickening number of 1d., 2d., and 3d. customers which are all served at a loss, while, to use Mr. Macksee's words, this undesirable portion of the business turnover is "propped up by the good profit on the patent medicines." We fail to reconcile these two statements. "Xrayser II." says we are asking an extravagant profit, and quotes the figures given by a lecturer many years ago, which on comparing with ours work out as follows:—

| | s. | d. | | s. | d. |
|-------------------------|-----|-----|-----------------------|-----|-----|
| Retail price of article | 1 | 3 | B/F | ... | 7 |
| Retailer's discount | ... | 3½ | Advertising (accord- | ... | ... |
| | | | ing to "Xrayser | ... | ... |
| | | | II.") | ... | ... |
| Wholesaler's | ... | 11½ | | | 4 |
| | | 12 | | | |
| | | | | | |
| | | 10 | | | 3 |
| Duty stamp | ... | 3 | Manufacturer's profit | ... | 1 |
| | | | | | |
| | | 7 | Cost of production | ... | 2 |

Our figures, therefore, seem to tally fairly well with those of the lecturer quoted, except that the 2d. for cost

of production is inclusive instead of exclusive of container, so that we fail to see how we are asking for extravagant profits. Again, "Xrayser II." errs in saying we wrote of supplying these articles at a loss. The loss distinctly referred to the stamp only, not the articles themselves. He, however, sums up the case very neatly when he writes that "no statement of figures, by whomsoever put forth, on this subject has ever done anything but left him wondering how the retailer, wholesaler, and manufacturer all live, but somehow or other they do." Thus the correspondence has up to the present left us, as the lawyers say, "in statu quo," or as the jocular farmer put it, after imbibing his landlord's claret at lunch, "no forrarder."—Yours faithfully,

London.

LEATH & ROSS.

James Baynes, Ph.C.

SIR,—I was greatly interested in the paragraph on the late Mr. James Baynes (*C. & D.*, January 20, p. 74), having served my apprenticeship to him in a shop in Waterworks Street, Hull. I visited Hull some years ago, and the part was so altered that although I made numerous inquiries I failed to locate the old shop. Any knowledge of chemists' shops in Waterworks Street seemed quite legendary, although, when I was there, there were two or three—Barlow, George, and (I believe) Jubb—in the immediate vicinity. I do not recollect seeing the portrait in question [a reproduction appears on p. 179 of this issue—*EDITOR*]; but Mr. Baynes was of rather pale, florid complexion, clean-shaven, white haired (when I was there), not tall, and having a sharp, thin nose. The pharmacy was of the old school, no display, window with wire blinds and carboys, and perfumes were not stocked. Mr. Baynes managed the business at that time with two apprentices, senior and junior; the senior was supposed to be qualified to manage, and as he passed out the junior stepped into his shoes, imparting knowledge in his turn. The master did some supervising, otherwise everything was left to the apprentices—a truly economical proceeding, as there was no salary, and the hours were 8 to 8 during a five years' apprenticeship. The master passed his time chatting with customers, and interviewing patients in his sitting or consulting room—he was a great prescriber. After an interview in the shop he would invite the client to "come this way," and they would remain in the room during the consultation with closed door. When the door leading into the shop opened, the apprentices were on the alert. The master stood at the door, ordered verbally the size of bottle required, and called out names of ingredients consecutively, we dispensing from the shop rounds with his eye on us. The bottle was labelled, wrapped, and delivered to him; he then handed it to his patient with final instructions. The patient, no doubt, felt greatly impressed at the performance and the profundity of knowledge displayed. The "mix up" generally did good, and the client would return later for a double-sized bottle—prices, 8 oz. 1s. 3d., 16 oz. 2s. 6d. The favourite tonic was: Tinct. "Stomach" (cinch. co.) ʒii., spt. am. ar. ʒii., aq. ad ʒviii. There were no D.D.A. restrictions then. The chemist the other side of the street kept ready for sale pennyworths and two-pennyworths of opium, which was greatly appreciated by the public then. I never heard of anybody taking too much. Mr. James Baynes, junior, had his laboratory at the back of the building at one time, and moved while I was there to a more central position. I remember a great explosion taking place in the laboratory while oxygen was being made for exhibition purposes, and Mr. Baynes, junior, came through the shop with his whiskers blown away. His father, who was greatly respected in Hull, held appointments as churchwarden at St. John's Church, and deputy-Registrar of Births and Deaths. He had, I think, three daughters. He was reputed as good as a lawyer, and had many visitors for legal advice. Modern trading methods were then in their infancy; stationers and others were just beginning to stock and cut "patents," and the germs of the multiple stores were just taking root. We did a good trade in leeches: they were counted out by 25's, placed in linen bags, then in tins.

I am, etc.,

Braunton.

A. BARLOW.

Irish Ph.C.'s and R.D.'s

SIR,—The letter from Mr. F. T. Smith in last week's issue of the *C. & D.* (p. 174) on the question in dispute between Ph.C.'s and R.D.'s is the most reasonable contribution on the subject which has yet appeared, and is characteristic of the man. Mr. Smith strikes the true note, and if we act on his advice and approach the matter dispassionately and impartially I feel confident an amicable arrangement may be arrived at satisfactory to both sides. Let us have done with bitterness and recriminations. All are agreed that, if the question is not settled in the near future, we are in for endless trouble, which will not redound to the credit of pharmacy. I would, therefore, appeal to Mr. Nugent and those for whom he speaks not to stand in the way or bar the door to a settlement, but rather let them take the more courageous course by waiving some, at least, of their objections. In doing this they will not only be surprised but gratified by the results. Besides, they will be doing something for which every pharmacist in Ireland will have reason to feel grateful.

Yours sincerely,
AMICUS (7/2).

"Druggist" or "Chemist"?

SIR,—I was speaking to a learned professional chemist the other day, and in the course of our chat he said that a retailer of drugs, either in a medical man's script or in a layman's copy of a newspaper recipe, or in the ordinary course of trade, had no moral right to the title of "chemist," no matter who or what authorised him or her to use it, and that the title "druggist" was more honourable and expressive than the other. In America, he said, there was no such title as "chemist." In my own opinion "druggist" is the more ancient, "chemist" being of recent lineage. The question of selling the ingredients mixed in a doctor's prescription is another matter. Personally, I would be sorry to lose my title of "druggist."—Yours truly,

Pomeroy.

J. F. GRIMES.

Camwal's Report

SIR,—Your correspondent "A Shareholder" (*C. & D.*, February 3, p. 173) very properly criticises the result of the year's trading of the above company. . . . The shareholders have a right to know what emoluments, such as salary and commission, any of the directors draw in addition to their fees, and what profit or loss is made by each of the branches. Were it not for the fact that the majority of the shareholders have but a small stake in the company, they would never tolerate the company having six directors, including two managing directors. Unfortunately, I have a larger financial stake in the company than some of the directors, and I feel, like a good many other shareholders, that it is time the present board retired and made room for a new board consisting of live men of large commercial experience and standing.—Yours faithfully,

E. CANNON.

The Future of Pharmacy

SIR,—I am afraid that "Clinical Chemist" (*C. & D.*, December 30, 1922, p. 958) is shaping his views with an erroneous impression of the conditions prevailing in pharmacy in this country. His letter reads as though he had the idea that pharmacists have gradually lost the right to dispensing, whereas the trouble is that they have never had the sole right to it. In other countries dispensing and prescribing are separated; but here a doctor is out for all he can get, and professional etiquette is merely a thin veneer covering a studied commercialism which is gradually spreading its octopus feelers in the endeavour to grasp any and every possible means of enrichment. Such a policy, backed up by complete organisation and strong representation in Parliament, is an obstacle to the claims of pharmacists, which is not likely to be easily overcome. Furthermore, if "Clinical Chemist" has ever read the history of the passing of the famous by-law, he will realise that pharmacists are far from united in their own ranks; so that what is termed apathy is really only a

recognition of the fact that each man must make his own way, and to do this must adapt himself to circumstances. When a man is looking for food he does not worry much about his social status. I seem to recollect that even in South Africa there are firms with the style of chemist which do a large business in photographic goods, optical goods, sheep dips, and mining sundries.

Yours truly,
SOCIAL STATIST (29/12).

SIR,—I have been interested and amused by the correspondence appearing from time to time in your most excellent paper relative to the status of the retail chemist. Personally, I believe it will never alter as long as we can be connected with the word "shop." It is perhaps far more noticeable out East, in a British community, than at home. I have in mind a case which was brought to my notice a short time ago. A Britisher, who has had a retail business for many years in a certain town, has a son whom he sent to England to be educated, and who graduated at Oxford University. On his return to his home he was put up for the best club in the town and was black-balled, solely for the reason that his father kept a shop. I think this just sums up the situation. A man may buy or make and sell any commodity as long as he sells it from an office and not a shop. In other words, a junior clerk in an office or bank is looked on as being more of a professional man than a retail chemist, irrespective of training, education, or degrees, scientific or otherwise.—Sincerely yours,

ARABY (17/1).

In Exile.

Past and Present Business Methods

SIR,—"Fed Up" (*C. & D.*, February 3, p. 174) is not the only one who finds difficulties arising from delay due to the super-organisation of wholesale firms. If I have occasion to go to town for any special lines (it is generally done on the early closing day, as being the only time available), it takes me the whole afternoon to get served at two or three houses. In one well-known firm there is one gentleman in the showroom to attend to all comers, and the customer frequently has to wait half-an-hour before being spoken to, and another half-an-hour or more to get the goods. Can anyone imagine a retail customer waiting five minutes, let alone half-an-hour? At one time, I was myself in charge of a City showroom, and it was an inflexible rule of the firm that no employee was to leave his department, but, if he wanted any goods from another room, to communicate by the house telephone. Consequently, if a customer called for a small line required urgently, I had to telephone to another department, which had to look out the goods, send them to the dispatch room and a copy of the order to the invoice office, the dispatch room had to wait for the invoice and the goods to be checked by it, and eventually the parcel arrived in the showroom, generally to find that the customer had departed, fed up! It is in this respect curious to note the difference in the attitude shown by the public when shopping at a store and at a retail chemist's. In the retail shop they walk out if not served in a moment, whereas in the big stores they cheerfully go from one department to another, up and down lifts, getting one article at each counter, paying at the cash desk and going back with the bill to get the goods, taking an indefinite time, whereas the pharmacist could have served the whole in one transaction.

Yours, etc.,
"ALSO FED UP" (3/2).

Printing Charges

SIR,—Like Mr. Desborough (*C. & D.*, February 3, p. 173), I have found a vast difference in the prices quoted by chemists' printers and reliable local firms, and in consequence I now place all my orders for circulars, billheads, etc., locally, and I am quite satisfied. Unfortunately, when it comes to labels, if one requires a good style the local firm has neither the plant nor the experience for this kind of printing.

Faithfully yours,
"LOCALITE" (5/2).

Legal Queries

Doubtful (6/2).—**ALOPECIA HAIR-WASH**.—A label bearing these words renders the preparation to which it is attached liable to medicine-stamp duty.

R. C. H. (6/2).—The conditions covering the sale of barbitone are those of Part II. of the Poisons Schedule. These are given in *The Chemist & Druggist Diary*, 1923, p. 253-4.

Cocaine (5/2).—**SUPPLY OF COCAINE TO DENTISTS**.—The conditions of supply of cocaine by chemists to doctors and dentists were given in the *C. & D.*, January 20, p. 94, to which please refer.

K. & S. (4/36).—(1) We do not publish a list of poisonous doses of drugs. (2) The procedure to be adopted in the sale of "dangerous" drugs to medical men was given in the *C. & D.*, January 20, p. 94.

W. C. (25/1).—The cough-balsam label renders the preparation to which it is attached liable to medicine-stamp duty on account of the proprietary right claimed by using the name of the maker in the possessive case.

Lobelia (27/1).—Licentiates of the Apothecaries' Society of London and Dublin are qualified medical practitioners and can be supplied with "dangerous" drugs under the Regulations of the Dangerous Drugs Act.

O. B. (2/2).—**CANTHARIDES IN HAIR-WASH**.—You will notice that the entry in the Poison Schedule is "Cantharides, tincture and all vesicating liquid preparations or admixtures of." The opinion is held that a hair-wash containing acetum cantharides does not come within this definition.

S. H. O. (3/2).—A mixture containing tr. camph. co. 3ss, in 5vj. aq. is a poison within the meaning of Part II. of the Poisons Schedule of the Poisons and Pharmacy Act, and requires to be labelled "Poison." It is a question, however, whether the maxim *De minimis non curat lex* does not apply to such a dilution.

A. J. H. (24/1).—"KNOWN, ADMITTED AND APPROVED" REMEDIES.—The next opportunity of registering formulas will be in *The Chemist & Druggist Diary*, 1924, which will be prepared in November. Notice will be given of the times during which formulas can be received. The application of a registered trade-mark to one article is evidence of a claim to proprietary rights, and takes it out of the exemption referred to above.

Alpha (30/1) is the owner of premises let in perpetuity to the local council at a rent of £15 a year, "to be paid over and above all taxes, charges and impositions whatsoever." Is the Council entitled to deduct from the rent 5s in the £, and also the tenant's portion of the poor rate on the full £15? "Alpha" also owns other premises let at an annual rent of £25, "clear and above all rates, assessments, and impositions whatsoever, quit rent and landlord's portion of income tax only excepted." Is the tenant entitled to deduct 5s. in the £ on the full rent of £25? [In each case the tenant is entitled to deduct income tax at the rate of 5s. in the £ on the amount at which the premises are assessed for income tax purposes (not necessarily the full rent) after he has paid the tax. Upon the facts disclosed it does not appear that either tenant can make any deduction on account of poor rate or any other similar charge.]

Spiritus (27/1) refers to the reply to "Nightmare" in the *C. & D.*, January 20, in which it is stated that the limit of arrears of income-tax which may be claimed is three years. The inspector of income-tax recently claimed eight years' arrears from "Spiritus," who now asks if this was right, and, if not, is there any way by which he can get the overcharge for the five years of the eight returned to him. [The law is as stated in reply to "Nightmare." Arrears of income-tax can only be assessed and claimed for the three tax years immediately preceding the year of assessment. And, in the same way, a claim for overpayment of tax by

a taxpayer cannot go back beyond these three years. If, as is understood, "Spiritus" paid tax for any time prior to the last three years, the Income Tax Acts make no provision for repayment of the amount overpaid by him, and there is in law a difficulty in the way of recovering a tax which has once been paid to the Crown unless repayment is expressly provided for by some Act of Parliament. "Spiritus" will therefore have to ask repayment as a matter of grace from the tax authorities.]

Troubled (5/2).—A chemist, in addition to carrying on his own business, jointly with his wife let furnished apartments and took in paying guests. The wife died recently, leaving all her property to a married daughter. It now transpires that, without her husband's knowledge, the wife had deposited in the Post Office Savings Bank, in her own name moneys received from lodgers and paying guests. Is the money on deposit part of the wife's estate? Was she entitled to dispose of it by her will without her husband's knowledge? If the money did not belong to the wife, how can her husband prevent his wife's executor from disposing of it according to the will? [We assume that the chemist and his wife carried on the apartment business in partnership, in which case the money deposited by the wife at the Post Office is presumably divisible between the chemist and his wife's estate according to the proportions in which they shared the profits. In so far as the money belonged to the wife she was entitled to dispose of it by will without her husband's knowledge. If the interested parties cannot agree what part of the money belongs to the chemist it will be necessary for the matter to go before the Court for directions as to its disposal. The chemist should certainly consult a solicitor immediately.]

G. J. (29/1) asks if we can give him approximately the figures for his stock as in April 1919, 1920, 1921 and 1922. In November of last year he took his stock for the purpose of returning his profits to be assessed for income-tax, and made it to be £2,565. As, however, the stock had not been previously taken, there is nothing to compare it with; and the income-tax assessor claims that during the previous three years there had been an increase in the value of "G. J.'s" stock which ought to have been brought into the account of taxable profits, and as this was not done that tax is due now on that increase in respect of these three years. [We have no means whatever of finding exactly what the stock was on the dates referred to. Nor, we should say, has the assessor; but as the difference in the value of the stock at the beginning and at the end of the year of account ought to have been brought into the account for income-tax, if the assessor now makes a supplementary charge for the three previous years this will be allowed by the Commissioners unless "G. J." can give figures which will be accepted as the actual stock. The stock on November 1921 might be found fairly closely in this way. Assume the gross profits to average 33½ per cent. of total sales in the period, and the cash account to show total receipts in the year November 1921 to November 1922 to be £1,500, while the purchases of stock in that time were £900; the stock in November 1921 would then be £2,565—£1,000 (that is, £1,500—33½) + £900, or £2,465. In the same way figures may be got for the two preceding years. Any increase found in stock is to be added to the taxable profits for the year, and any decrease can be deducted.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Appreciations.

The *C. & D.* and its year-old baby (the price-list) prove more valuable every day.—*P. G. C.* (247/15).

Much must be done without in these hard days, but I cannot do without my favourite *C. & D.*, so please find P.O. for 20s. enclosed.—*H. M. R.* (29/1).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. M. L. (12/1).—The process of removing adhering flesh in currying animal skins is carried out by scraping with a blunt tool. If the flesh is dry it will need softening by moistening with saturated solution of sal ammoniac.

A. S. (12/12).—DYEING LEAVES.—These are dyed by boiling with aqueous solution of red dye such as erythrosin or eosin.

Aspirant (29/12).—HORTICULTURAL FORMULAS.—The *Chemist & Druggist Diary*, 1910, contained the most complete formulae of agri-horticultural preparations. There is also a chapter on the subject in "Pharmaceutical Formulas."

G. B. D. (27/12).—EAR DROPS.—The following is the formula for which you inquire:—

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Ol. amygd. | ... | ... | ... | ... | 5j |
| Etheris, | | | | | |
| Tr. opii | ... | ... | ... | aa. | 3ss |
| Mix. | | | | | |

H. A. (2/2).—LIQUID EXTRACT OF CINCHONA.—The formula official at any period may be regarded as the expression of the pharmaceutical opinion as the best method of extracting and presenting cinchona in a concentrated form. The use of hydrochloric acid in the menstruum is due to Dr. De Vrij, his process being the one upon which the ext. cinchonae liq. of the B.P. 1855 was founded. The present official process is a similar one containing glycerin, which was introduced with the object of preventing precipitation on keeping. The B.P. process does not exhaust the cinchona bark, but produces an extract that mixes with water and keeps fairly well. If it is required to extract all alkaloids from the bark percolation of the marc is continued with the same menstruum as recommended by Dr. De Vrij.

F. J. N. (3/1).—ACETYLENE PURIFICATION.—The two mixtures much used are a ragine consisting of bleaching-powder and 15 per cent. of lead chromate, and puratylene, a mixture of bleaching powder with calcium chloride and calcium hydroxide.

S. G. (11/1).—WHITENING TENNIS BALLS.—This is managed with a cream of whiting containing a small proportion of size.

T. W. (29/1).—LOCAL ANÆSTHETIC FOR CHIROPODY.—It seems to be customary to spray the part to be operated upon with ethyl chloride, but some accounts refer to the freezing and thawing process as more painful than the operation.

J. B. H. (9/1).—We cannot trace any quotations on the Stock Exchange for the shares of the two companies to which you refer. An inquiry at the registered offices of the companies would yield the information required to shareholders.

V. L. T. (29/1).—RAT POISONING.—Artificial barium carbonate is generally preferred to witherite for rat poisoning on account of its denser physical character. Liquid extract of squill is made by percolating dried squill with a menstruum of glycerin 25 volumes, acetic acid 2½ volumes and distilled water to 100 volumes.

E. W. K. (29/1).—COCONUT OIL SHAMPOO.—See *C. & D.*, January 7, 1922, p. 12.

P. A. B. (28/1).—The British Homœopathic Pharmacopœia is published by Gould & Co., Moorgate, London, E.C., at 10s. 6d.

KUKLOS (23/1).—(1) BOOK ON DISINFECTANTS.—Rideal's "Chemical Disinfection and Sterilisation" (Arnold, 21s.). (2) BOOK ON SOAP-MAKING.—Hurst's "Soaps: A Practical Manual on the manufacture of domestic, toilet and other soaps," (Scott, Greenwood, 21s.).

C. H. C. (10/1).—CANDLE-POWER OF GAS MANTLES.—As compared with the old fish-tail burner, the candle-power of an incandescent gas mantle is about four and a half to one.

W. J. S. (31/1).—BLACK COMB IN FOWL.—This includes two diseases: (1) Dropsy of the comb, or wattles; (2) black rod. In the former, which is sometimes very troublesome and should receive immediate attention, the comb swells and becomes a dark purple colour. Open the part affected and allow the liquid matter to escape. Bathe with lukewarm water containing carbolic acid or lysol, and dress with ung. ac. bor. or ung. ac. carbol. Give a tonic and plenty of nourishing food, of a green variety for preference. Black rod is dealt with in "Veterinary Counter Practice," p. 352.

B. & B. (25/1).—A mixture containing almond oil and syrups necessarily separates on standing, unless the oil is emulsified. This, however, changes the character of the preparation entirely.

Achilles (25/1).—APPRENTICES' PAY is now usually 20s., 25s. and 30s. per week respectively for the three years' service.

A. W. H. (24/1).—FACE CREAMS.—The chapter on skin creams in "Pharmaceutical Formulas" contains a selection of the various kinds of recipes for face creams. If there is nothing there which exactly meets your requirements, you have useful basic formulas with which to experiment.

J. W. (25/1).—LEMONADE CRYSTALS.—We know of no method of preventing hygroscopicity in lemonade crystals made with citric acid. It is this property which accounts for the fact that lemonade crystals have since their invention been made with tartaric acid.

C. R. (1/2).—(1) CAMPHOR AND MUSTARD OIL is usually a mixture of equal parts of lin. camph. and ol. sinapis express. (2) COCONUT OIL PREPARATIONS.—See *C. & D.*, January 7, 1922, p. 12.

S., Ltd. (4/2).—ARRANGEMENT OF DISPENSING DEPARTMENTS.—It is many years since we published an article on the arrangement of the dispensing department (*C. & D.*, January 26, 1901), but the changes in the practice of dispensing that have taken place in the interval do not appreciably affect the plans there outlined. In the *C. & D.*, July 27, 1912, Jay Mack described a department arranged especially for Insurance dispensing.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," February 15, 1873.

Pharmaceutical Society of Great Britain

A strange debate took place at the recent meeting of Council, February 5, 1873. It related to three ladies—Alice Marion Hart, Rose Coombes Minshall, and Louisa Stammwitz. It is specially with regard to the two latter that we have to speak, and we commend these remarks to the serious attention and the sense of honour of members of the Pharmaceutical Society. The facts are these:—At the last Preliminary Examination held in London, forty-one candidates submitted themselves to the ordeal, two ladies amongst the rest. It was proposed to the delegate-examiner of the day that they should remain either in the secretary's room, or some place of comparative retirement. This suggestion was instantly refused; they came in with the rest, at the same time, and left in company with the other students. They met that courtesy, neither more nor less, which every candidate may expect with confidence from the Board of Examiners. Their papers were submitted in the usual manner, and both passed, one with considerable distinction. Lastly, in due course, they applied for their election as apprentices or students, whereupon, their own names and that of the first-mentioned lady having been sifted out, Mr. Sandford moved the following amendment:—"That Alice Marion Hart, Louisa Stammwitz, and Rose Coombes Minshall be not elected apprentices or students of the Society."

[The effect of the discussion was to defer the decision until June.—EDITOR.]

Cachet machines

A word about these machines will not be out of place, particularly as Cachets are utilised by almost every chemist who takes pride in the manner in which his prescriptions in powder form are dispensed. They are immensely strong and constructed on sound principles, heavily nickelled on stout metal plates, the latter being trued up so that they fall perfectly flat one upon the other, thus ensuring a perfect closure of the Cachet or Koseal. Any chemist, no matter what the magnitude of his Cachet trade may be, will find any one of these machines a profitable investment. With ordinary care

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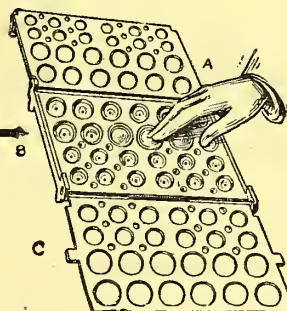
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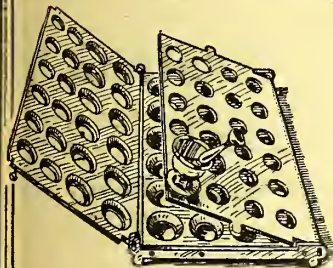
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| 12 " | " 0½ and 1 | ... | 37/6 " |
| 12 " | " 1 and 2 | ... | 37/6 " |

NOTE

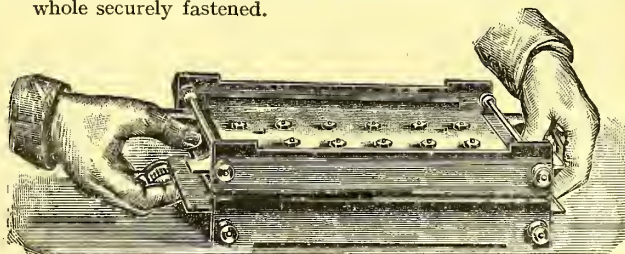
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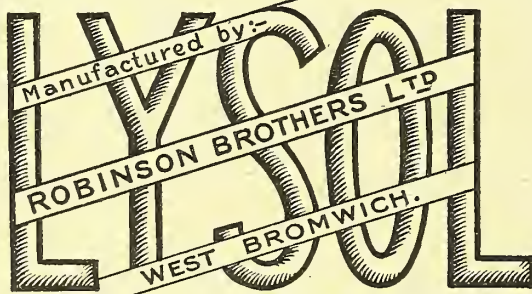
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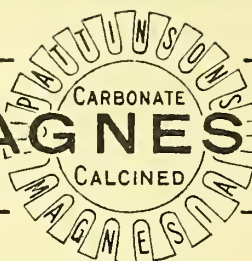
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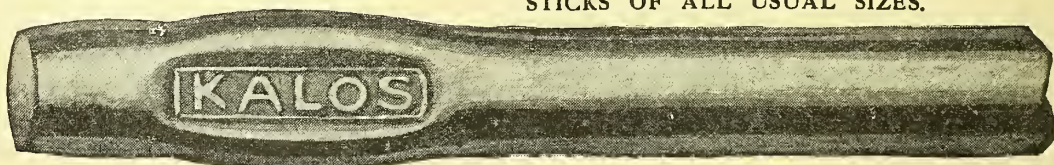
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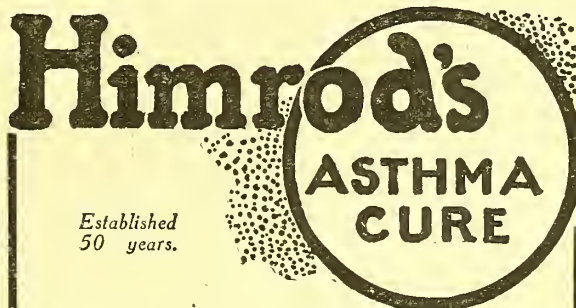
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We are now constantly detailing and sampling
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The leading wholesale druggists of England are carrying a
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Special Terms for Window Show

Any Distributor ordering One Gross 3/- size Blood Mixture—or its equivalent in value—is offered an extra half-dozen Blood Mixture for 14 days' Window Show.

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Prepared from a distillate of peat, Sphagnol Soaps and Ointment are the natural remedy for Acne, Alopecia, Anal Fissure, Blepharitis, Chilblains, Dermatitis, Eczema, Erysipelas, Haemorrhoids, Impetigo, Insect Bites, Prickly Heat, Pruritus, Psoriasis, Falling Hair, Scabies, Septic Wounds, Urticaria and Burns.

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For **WHOOPIING COUGH**, Asthma, Catarrh
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A new heart sedative for external use.

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IT is Pharmacists *only* who benefit from the sales created by the intensive advertising of this famous old Home Cough Remedy. Every sale you make carries a protected profit of one-third on cost. Moreover, this profit is secured to you *unconditionally* and when buying from your wholesaler in quantities suited to your convenience.

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OF LINSEED, ANISEED, SENEGA, SQUILL, TOLU, ETC.
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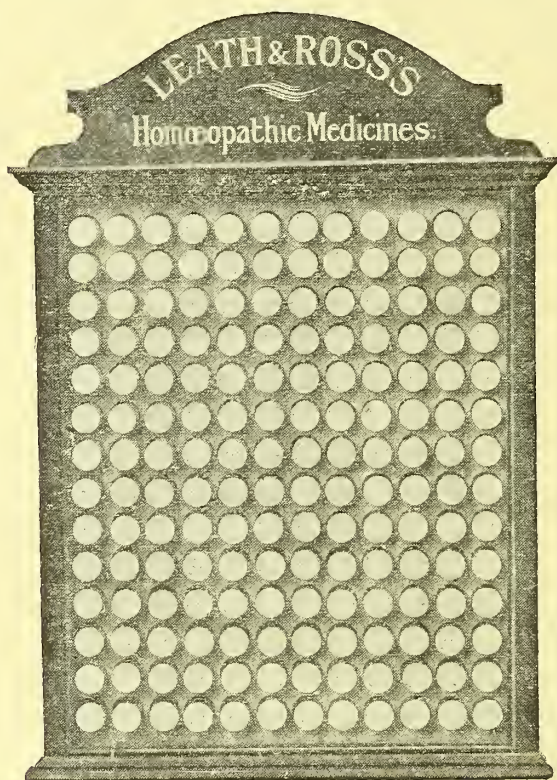
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Therefore you must have one of these handsome Showcases in your Pharmacy, because

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You can choose your own medicines, or leave the selection to us. We should send the best selling lines only, and agree to exchange any within twelve months, FREE OF CHARGE.

Dimensions of the Case, Height (including Scroll) 26 in.
Width 19 "
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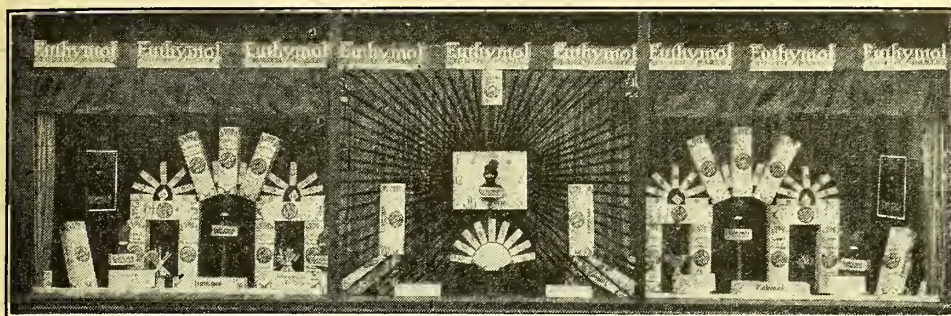
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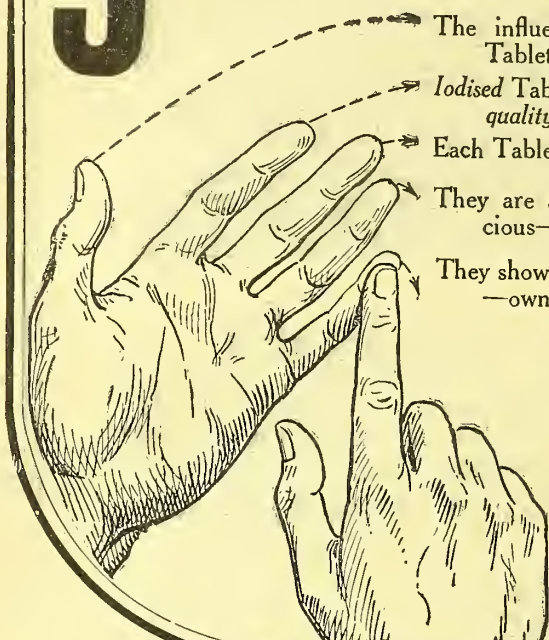
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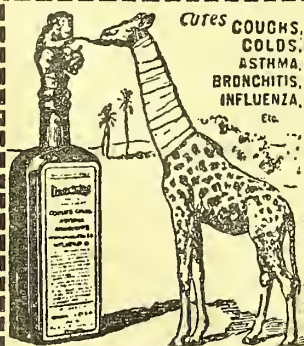
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| 10½d. size | - | - | - | 8/6 | per doz. net. |
| 1/3 | " | - | - | 12/- | " " |
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Write for free sample and literature, post free.
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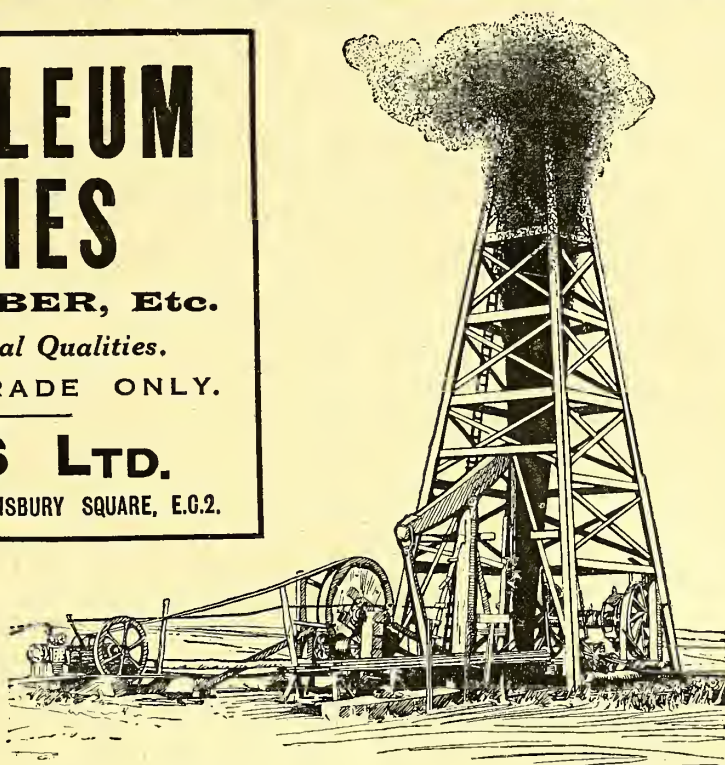
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| 3½ dozen 1/3 size at 12/- net ... | £2 2 0 | £2 12 6 |
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| Less 10/6 for Window Show ... | 10 6 | |
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Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.

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In Cartons containing 12 "Baby" Tablets, all one perfume, or assorted in 12 odours.

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

FEBRUARY 10, 1923

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—LONDON, W.C.—Good middle-class Retail and Dispensing Business for immediate disposal through death of late owner. Gross receipts between £3,000 and £3,750 yearly; handsomely fitted shop, fully stocked; roomy house; held on lease. Terms to be arranged equitably.

—CITY PHARMACY.—Retail and Dispensing Business, with full export trade; returns exceed £5,000 per annum; gross profit, over 50 per cent.; well-fitted shop, heavily stocked; held on lease; price £3,500, or near offer.

—LONDON, E.—Well-established Business. Returns about £1,000; net profit, £400. Rent £40 yearly; scope for development; price £1,200.

—LONDON, N.—Cash Retail Business in busy shopping street; returns about £50 weekly under management; net profit 10 per cent.; double-fronted shop; large attractive windows; held on lease, at moderate rental; price about £1,500, or on terms entertained.

—SOUTH OF ENGLAND.—High-class Retail and Dispensing Business, with Optical; double-fronted shop, living accommodation; rent £120; 21 years' lease; profit estimated at £1,500; price between £4,000 and £5,000; further details on receipt of banker's reference.

—LONDON, S.W.—Old-established Business, in same family for 50 years. Returns about £20 weekly, with scope for improvement. Double-fronted, well-fitted shop, fairly stocked. Rent £65; sub-let 32s. weekly; held on lease. Offered.

8.—HOME COUNTY.—Very old-established Business, Retail, Dispensing, and Photographic. Returns between £2,500 and £3,000. Net profit over £700 per annum; well fitted shop, heavily stocked; ample living accommodation, garden; new lease will be granted at low rental; price £2,000 cash.

9.—CARLISLE (WITHIN EASY DISTANCE OF).—Retail, N.H.I. Prescribing, Agricultural and Kodak Agency; returns average about £1,000; net profit, £250; rent £25, rates £4; no opposition; price £750.

10.—SOUTH COAST.—Business for disposal, recently established in new Garden City, offering scope for unlimited extension in the hands of a qualified chemist; small living accommodation, large garden; new lease will be granted; price about £200.

11.—KENT.—Very old-established Business, situate in shopping locality; returns exceed £3,000 yearly, with scope for development; price to be arranged equitably.

12.—MIDLAND COUNTY.—Good Family and Photographic trade, old-established Business; turnover £3,000 to £3,500 per annum; modern shop, good position; stock and fixtures about £2,250; accept valuation.

13.—KENT (HEALTH RESORT).—General Retail Business, very much neglected; in the hands of an energetic man the turnover could undoubtedly be increased; present rate, £10 weekly; lock-up shop; held on lease at rental of £20 per year; price to be arranged.

14.—EAST COAST (HEALTH RESORT).—Good-class Retail and Dispensing Business, with Photographic; returns approach £2,000; net profit £560; double-fronted corner shop; good house, electric light; low rent and rates; long lease; price £1,500 cash.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

BERDOE & FISH*Valuers and Transfer Agents,***35 Jewry Street, Fenchurch Street, E.C.3.**

Telephone—1809 CENTRAL.

1.—HAMPSHIRE.—Well-established Business for disposal, with branch, in fine positions; combined turnover, about £5,000; plenty of scope; price required, £2,750; further details on receipt of references.

2.—EAST COAST.—High-class seaside Business, in very best position; returns, £1,900, full prices; net profit, £500; good house, bath, electric light, etc.; low rent, long, valuable lease; price £1,500 cash; strongly recommended.

3.—YORKS. (W. RIDING).—High-class Drug Stores, with Photographic; returns, £2,000; no N.H.I.; net profit, £500; main road position; plenty of scope in qualified hands; fully stocked; price £1,250.

4.—PORTSMOUTH.—Profitable Cash Retail, mostly drugs, opening for N.H.I. and photo. Returns £800; plenty of scope; low rent; house available shortly; fully stocked; price £550.

5.—LONDON (Good Residential Suburb).—Good-class Retail and Dispensing Business; returns average over £4,000; fine position; good residence attached; price required £2,500.

6.—LONDON, E.—Cash Drug Store, with Kodak Agency; splendid opening for N.H.I. Returns over £1,700; plenty of scope; good house; low rent; on lease; price £900.

BUSINESSES WANTED.**STOCKTAKING VALUATIONS.**

We are now booking dates for February and March, and invite applications for our special terms for doing this work. Our long and varied experience enables us to do the work quickly and without disturbing the general routine of business.

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Head Offices—26-28 Kimberley House,
Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool)

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WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—LONDON, E.—Lock-up Druggist's. Lease 21 years at 25s. per week inclusive. Returns under unqualified management, £550 p.a. Stock about £150. Price all at £450.

2.—LONDON, S.W.—Drug Stores. Lease 20 years to run at £60 p.a. Let off £35 p.a. Returns £30 week, all cash. Price £880 for quick sale for everything, including stock about £500. Good living accommodation and every scope for qualified man.

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4.—KENT.—Chemist. £52 p.a. Returns £40 per week. Profits 25 per cent. net. Price £1,200. Stock at valuation, £400. Splendid opportunity to obtain a genuine business with good living accommodation.

5.—HULL.—Druggist's, on lease at £30 p.a. Let off £52 p.a. Returns £25, all cash. Price £600, stock at valuation about £200. Splendid living accommodation, and scope for qualified chemist.

WANTED, for client with cash up to £1,250, Chemist's Business on the South Coast. Must bear fullest investigation.

STOCKTAKING.—Now is the time to take your stock. Perhaps it is too much trouble or you have not the time to spare. Then why not consult the Practical Firm who will do this work for you for a small inclusive fee, without interference with your work. For full particulars write as above.

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INCOME TAX.—Trading Accounts Prepared and Assessments
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Will interested Chemists please communicate

At Once with regard to an Economic Scheme?

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Re **CHEMICALS & BY-PRODUCTS, LTD.** (in Voluntary
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THE Business of the above Company is offered for Sale at a going concern by Private Treaty, or, alternatively, the Assets or any portion of them. The Assets consist of Freehold Premises on approximately 6 acres of land, including fully equipped Laboratory, Modern Plant and Machinery, Tools, Fittings and Fittings, Stock-in-trade, and Trade Debts.

The Works are well equipped for the manufacture of

(a) Medicinal Tablets of all kinds,

(b) Indicator Dyes of all kinds,

and are situated close to the L. & N.W.R. and Canal, and the proposed extension of the Metropolitan Railway.

For further particulars and permit to inspect, apply to the Liquidator, H. G. Howitt, Esq., W. B. Peat & Co., 11 Ironmonger Lane, E.C.2.

PARTNERSHIPS.

PARTNERSHIP offered in two established Businesses in South Yorks; applicants qualified, age not under 33, good Prescriber, Salesman, and Window-dresser; knowledge of Photography essential and Optics desirable. Apply, full particulars, 19/606, Office of this Paper.

AGENCIES.

AGENTS, with established live connections with Retail Chemists, required in all parts of England, Wales and Ireland to carry well-known Proprietary Article; liberal commission; give details of goods carried and commission expected. 55/23, Office of this Paper.

BUSINESSES WANTED.

s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CASH Retail and Dispensing Business doing about £2,500, with good living accommodation, within 25 miles of London; one with garden preferred. Particulars, in confidence, to 257/5, Office of this Paper.

HIGH-CLASS Pharmacy required in about a month's time, preferably Midlands or South Coast; cash transaction; must show £500 to £750 net profit, and hear every investigation. Replies treated with confidence. Please state particulars fully in first instance. 255/17, Office of this Paper.

SOUND, well-established Business required; North or Midlands preferred; one in good position for brisk Counter trade; main road or good suburb; living accommodation on or near essential; cash available. Full particulars, in confidence, to 258/4, Office of this Paper.

ADVERTISER desires a good-class Dispensing and Retail Business; returns must not be less than £3,000; good living accommodation an advantage; the following districts will have preference: Liverpool, Southport, Wallasey (Cheshire); must bear strict investigation; all information will be treated confidentially. 255/25, Office of this Paper.

EXPERIENCED Pharmacist desires to purchase a Business in good position; one possessing possibilities; living accommodation not essential; banker's and trade references given; cash purchase. All replies answered and treated in strict confidence. 250/6, Office of this Paper.

PHARMACIST, experienced, accustomed to high-class Retail and Dispensing business, requires engagement with view to early purchase, or would entertain Partnership in larger concern; South-Eastern Counties preferred; capital available £2,500. Replies treated in strictest confidence. 256/39, Office of this Paper.

SMALL Chemist's Business wanted, with living accommodation; Midlands preferred, but not essential; neglected shop or Drug Store not objected to if reasonable chance of improvement. Apply 257/6, Office of this Paper.

WANTED, small good-class Cash Business with comfortable house and bathroom; not on bus or tram route; South or West London suburb preferred. Full particulars, in confidence, of rent, rates, lease, accommodation, turnover, value of stock and fixtures. Cash in hand; banker's reference. Without N.H.I. and Optics no disadvantage. 254/33, Office of this Paper.

WANTED, Chemist's Shop, West-End, with one or two rooms to spare, to take over 20 years old Mail Order Business for Grey Hair Remedy, with steady repeat orders; no capital required. Reply P.C.B. 8/34, Office of this Paper.

WANTED to purchase a small genuine London Business where there is scope for increase; neglected one not objected to. Full particulars, in confidence, to "Pharmacist" (P.C.B. 9/8), Office of this Paper.

FOR SALE.

THREE dozen long stiff white whalebone Hair Brushes, ebony, not soiled, per dozen 45s.; worth 120s.; approval sample brush 4s. S. W. Vincent & Co., Chemists, Addiscombe, Surrey.

SURPLUS STOCK.—Armour's Extract of Meat; good saleable condition; about 21 dozen 1-oz. size, 6s.; 12 dozen 4-oz., 21s.; 4 dozen 8-oz., 40s. per dozen, to clear. John Richardson & Co. (Leicester), Ltd., 10 Friar Lane, Leicester.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

CHESHIRE.—Light Retail and Dispensing Business with good Photographic trade; net profits, £320; price, including freehold property, £2,500. "Z. Y. Z.", 258/35, Office of this Paper.

EASTERN COUNTIES.—Good Country Business; established many years; same hands 18 years; illness sole reason for selling; appointment easily worked brings in about £100 a year; turnover last three years averages over £1,000 (excluding appointment); nearest opposition five miles; convenient premises and outbuildings, large garden, covered gangway for motor; every investigation courted; price £800 to first buyer. "Genuine," 257/1, Office of this Paper.

G.W.R.—TEN miles from Paddington.—Genuine Business; bold corner shop; 21 years' lease; takings £3,300; house available; N.H.I. average 700 month; net profit, £1,000; price, goodwill, lease, fittings, £2,200, lowest price; stock at valuation, about £800; cash buyers only; banker's reference enclosed. Apply 257/34, Office of this Paper.

LONDON (Central), main thoroughfare.—Genuine old-established Business; held on lease at mod. rental; small living accom.; elec. light and gas throughout; returns, over £1,600 at excellent profit; N.H.I. Dispensing; price £1,000; cash buyers only. 258/28, Office of this Paper.

LONDON, S.W.—Drug Stores, middle and working-class cash trade; taking £15 per week, under young, unqualified; good opening for N.H.I. and Optics; long lease, low rent, 6 rooms, 4 let to good tenant; keen man could soon double returns; no immediate opposition; best offer near £450; part could remain 259/30, Office of this Paper.

SOUTH WALES.—Cash Drug Stores; mixed trade; established 12 years; wine licence; returns, average about £3,000; at good prices, qualified man could easily increase turnover with N.H.I., etc.; nearest opposition 2 miles; low rent; nice house; price to be arranged. 251/33, Office of this Paper.

WESTCLIFF.—Pharmacy for sale, taking £30 weekly; Kodak agency; plenty of scope; house portion now vacant; price £1,500; rent £55. Watkins, 365 Westborough Road, Westcliff-on-Sea.

WEST OF ENGLAND, country town.—Good all-round trade, Agricultural, but no heavy trade; good Dispensing and Family Business; modern house and shop; mahogany fittings and electric light throughout; no opposition; average gross profits for the past three years nearly £1,100; business and freehold premises for disposal; price £5,000, or near for cash buyer. "Z." c/o Ferris & Co., Bristol.

WEST RIDING, YORKS.—High-class Drug Stores, main road large manufacturing town; nice district; lock-up shop with good stock room above and cellar beneath; two windows; rent £40; lease; returns about £750; good stock; no rubbish; electric light; mahogany fittings, new condition; grand opportunity for young qualified man; had health reason for disposal. Marsden, Chemists' Valuer, 44 Sholebroke View, Leeds.

YORKSHIRE.—For immediate disposal, excellent Chemist's Business; turnover last year over £2,500; large modern shop, well fitted and stocked; house attached; inclusive price for the business and premises £3,500. Apply, with banker's or other reference, to 257/11, Office of this Paper.

YORKSHIRE.—Rare opportunity will shortly occur to purchase genuine old-established Business in country town, together with premises comprising shop, warehouse, excellent house, garden, with stable, motor house, etc.; returns, close on £50 weekly; Business, £1,100; property, £1,600. Full particulars on receipt of banker's reference. 259/38, Office of this paper.

FOR Sale, as going concern, Proprietary Article Business, Soaps, Powders, Creams, etc.; well advertised; registered private limited company wishes to dispose of same; a bargain; owners have other business. Particulars from Kraska Co., Ltd., 65 Portobello Road, Notting Hill Gate, W.11.

POPULAR HEADACHE REMEDY.—Immediate sale, registered trade-mark; established 17 years; formula, ideas, sketches, etc.; big mail order proposition; the lot with put-up stock for sacrifice price £70, no offers, with the list of 5,000 mail order buyers' names and addresses and 700 export and foreign buyers. "Zingih," 255/20, Office of this Paper.

£625.—BARGAIN. Excellent opportunity; been badly neglected owing to Dental practice; handsome corner lock-up shop, storeroom and cellar; S.E. Coast town; very nicely fitted, and exceptionally well stocked; good opening for Optics and Photographic; rent very low, on long lease; present takings, £15 weekly; could be easily doubled; house accommodation near by. "Profitable," 259/19, Office of this Paper.

SITUATIONS OPEN.

[HOME.]

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BRISTOL.—Unqualified Assistant; good Salesman and Window-dresser; age 25-30; Photography; quick, essentially honest, capable, and possess excellent references; short hours. State full particulars, experience, age, salary, outdoors (photo. if possible). 258/35, Office of this Paper.

GRAVESEND.—Required Assistant (single), 25-35; must be quick, active, reliable and a clean worker; permanency to suitable man; send full particulars in first instance; offers declined if not answered in 3 days. E. Millhouse, New Road, Gravesend, Kent.

LONDON.—Assistant required, age 25 to 35; a good Counter-man and Window-dresser, with knowledge of Photography and a quick Dispenser. Apply, by letter, to "W. R. N., Progressive Pharmacy Club, Arundel Hotel, 1, Arundel Street, W.C.1.

LONDON.—Manager required, age 26 to 40; must be a good Salesman, with thorough knowledge of the Toilet and Sundries side of the business, including Photography, and an expert Window-dresser; good opening for suitable man. Apply, by letter, to "W. R. N., Progressive Pharmacy Club, Arundel Hotel, 1 Arundel Street, W.C.1.

OUTDOOR ASSISTANT REQUIRED

FOR Publishing Department of THE CHEMIST AND DRUGGIST. Applicants must be young, energetic, of good appearance and address, and have an intimate knowledge of Retail Pharmacy and the Drug Trade generally. Written applications (in the first instance), giving full particulars, to "M. B., 42 Cannon Street, London, E.C.4.

LONDON, E.—Ascotts Pharmacies, Ltd., having taken over several Shops, require qualified Managers; must be good Salesmen, Window-dressers, and used to working-class trade. Apply, stating salary, experience, etc., to Head Office, 1098 Harrow Road, N.W.

LONDON, N.—Elderly Pharmacist needing small salary required for company shop. Age, salary required, etc., by letter only, to Derulis, 85 Lordship Lane, Wood Green, N.22.

LONDON, N.W.—Qualified Lady Assistant; must be accurate and quick Dispenser and good on Counter. Applications, by letter, must state age, height, capabilities, and salary. Maurice Jones, M.P.S., 204 Church Road, Willesden, N.W.

LONDON, S.W.—Wanted, by March 5, unqualified male Assistant, 25-30; outdoors; unexceptional references essential. State experience in full, and salary required. 257/36, Office of this Paper.

MIDLAND CITY.—First-class Photographic Assistant; must be efficient in all Photographic work, and thoroughly conversant with all types of cameras; able to supervise printing, developing, and enlarging. 256/37, Office of this Paper.

SHEFFIELD.—Thoroughly experienced Assistant (unqualified), about 24 years of age, for light Retail, Dispensing, and Photographic business. Full particulars, age, experience, salary, etc., to 259/35, Office of this Paper.

SOUTH WALES, near Cardiff.—Qualified Manager required for quick cash and Dispensing (N.H.I.) Business; permanency to the right man with share of profits; house attached. 256/370, Office of this Paper.

WEST-END.—Wanted, smart qualified Assistant (single). Kindly state full particulars as to experience, age, height, and salary required. Interview preferred. A. Burden & Co., 78 Duke Street, W.

WOLVERHAMPTON.—Assistant wanted, principally for Counter and Dispensing; must be energetic and willing to undertake Photographic work; outdoors; no Sunday or Bank Holiday duty. Please give particulars of experience, with references, and state age and salary required. Dnnn, Chemist, 10 Horseley Fields, Wolverhampton.

COMPETENT young man as Second Assistant in modern progressive Business; must be reliable Dispenser, good Counter hand, with real knowledge of Photographic trade; give full particulars, salary, references, etc., with photo, if possible, in first letter. Francis Hallam, Ltd., Rexall Pharmacy, Burton-on-Trent.

LADY Dispenser, qualified, Pharmacy experience; state full particulars as to experience, age, height, salary required. C. A. Maries, Pharmacist, Waterloo, Liverpool.

QUALIFIED Manager, not less than 26 years of age, for country branch; Agricultural experience essential; Photographic an advantage; applications unanswered in four days, respectfully declined. Photo, references, and particulars to W. Phillips, Chemist, Craven Arms, Salop.

QUALIFIED Assistant, male, for small Branch Business; good class light Retail and Dispensing; salary £3 10s., with room. Please state age, height, and experiences, to Prebble & Bone, Chislehurst.

QUALIFIED Manager; good appearance and address; small new branch best-class neighborhood; Family Retail, Dispensing, Photography; interest in profits will be given energetic experienced man. Particulars experience, state salary, references. Applicants unanswered Wednesday declined. Richard Evans, 8 Surbiton Park Terrace, Kingston-on-Thames.

QUALIFIED Manager, single, wanted for new Pharmacy about to be opened in Heathfield; must have good Counter and Dispensing experience; permanency and good prospects to a good man. Apply by letter in first instance, giving full particulars of experience and salary required (board and lodging provided), to A. Procter, 5 Station Parade, Eastbourne.

QUALIFIED Manager required for branch business, medium class; must be a good Salesman, obliging, good Window-dresser, quick, experienced, and hold excellent references; age 30 to 40. Apply, with full particulars and salary required, to W. F. Cole, 41, London Road N., Lowestoft.

QUALIFIED Branch Manager; single-handed; no Sunday duty; applicant please state height, experience, and salary required. 259/13, Office of this Paper.

SMART Junior wanted, in high-class Pharmacy. Apply to 5 Buckingham Palace Road, S.W.1.

UNQUALIFIED Assistant, single, not under 27, with good Dispensing and Counter experience, and knowledge of Photography; outdoors; short hours; near London. 258/40, Office of this Paper.

WANTED, immediately, qualified Assistant for Family and Dispensing business; must be quick, neat and accurate Dispenser, and able to take charge if necessary. Apply by letter, giving full particulars, or personally, to Jones (Beckenham), Ltd., 5 Rectory Road, Beckenham.

WANTED, Assistant for evenings, 6-8, except Thursdays; no Sunday duty; mostly for N.H.I. Dispensing; must be quick, neat, and accurate. Apply personally, if possible; genis. only. D. Davies & Co., 324 Caledonian Road, King's Cross, N.1.

£300 PER annum (salary and bonus).—A vacancy will shortly occur on the South Coast for a competent all-round qualified Manager in modern good-class Store; only first-class Salesmen and Window-dressers, with some knowledge of Optical and Photographic, need apply. Give full particulars of age, height, experience, and salary required, in first letter, to 258/22, Office of this Paper.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

DRUGGISTS' Sundries.—London manufacturers' sales department. Gentleman conversant with the trade for Correspondence, compilation of lists and sales matters, interviewing. Applications, stating experience, age, salary, to 19/605, Office of this Paper.

Returning Photos, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants, with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

EXPERIENCED Manageress (not under 27) for Bottling and Powder-packing rooms, required by famous firm of food manufacturers and wholesale Druggists; must be good disciplinarian, accustomed to control of large female staff, and have good knowledge of the Drug Trade. Apply, with full particulars, and stating age, experience and salary required, to 19/607, Office of this Paper.

REPRESENTATIVE on commission basis required for the sale of Shaving Brushes. Walter Booth, 45 Eden Grove, Holloway, N.7.

REPRESENTATIVES required by manufacturers of Toilet Preparations for (1) Lancashire, Yorkshire and North of England; (2) Midland Counties and North Wales; (3) South England and South Wales; and (4) London and suburbs; applicants must have specialised in the selling of branded and advertised lines, and have a good, live connection amongst ladies' Hairdressers, Chemists and Stores; part expenses and commission will be paid, and preference given to applicants representing another good house. 246/22, Office of this Paper.

TABLET Maker required; all-round hand. Please state age, experience, wages required. 19/611, Office of this Paper.

TEA Trade.—Representatives required by progressive firm, with speciality in well-known proprietary Packet Tea, also Blends and Originals; salary and expenses. Full particulars, in confidence, to "Specialists" (P.C.B. 8/6), Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

WEST INDIES.—Manager wanted for a Drug Business in the West Indies; fully qualified; three-year engagement; passage paid out; good salary to experienced, capable man. Apply, with testimonials and references, to Brodie, 45 Cluny Gardens, Edinburgh.

SITUATIONS WANTED.

RETAIL

[HOME.]

s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.A. ASSISTANT, unqualified, 10 years' good all-round experience, Dispensing and Counter; Midlands preferred. Bacon, 93 West Street, Warwick.

A.A.A. PHARMACIST, 34, single, disengaged, experienced, references, pre-war qualified, any capacity, anywhere; registered Locum R.P.U.; reasonable. "C," 2 Albert Road, Dorchester, Dorset.

A.A.A. —UNQUALIFIED, disengaged, 27, married, desires permanency; Dispensing, Counter, Photography, and Window-dressing; capable taking charge; London experience; excellent references; London preferred. Apply 259/40, Office of this Paper.

A.A.A. —ASSISTANT or Manager; qualified; 25; tall; energetic and willing; good all-round experience, excellent references, Photography, Window-dressing, desires change; London or provinces. 258/14, Office of this Paper.

A.A.A. —ASSISTANT, 27; Salesmanship speciality; quick and accurate Dispenser; high-class experience, including Photographic; highest possible references. 259/12, Office of this Paper.

A CONSCIENTIOUS Manager; energetic; tall; married; good experience, can increase business, desires change. "Chemist," c/o Stanley, 392, Richmond Road, Twickenham.

A QUALIFIED, thoroughly experienced woman Dispenser wants post, Doctor, Institution, lock-up Surgery; would reside latter; Locums booked; moderate salary. "Dispenser," 108 Lower Richmond Road, Putney, S.W.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

A QUALIFIED Assistant, with four years' experience, requires position in a good-class Business with view to ultimate succession; London (suburban) or South Coast preferred. 257/23, Office of this Paper.

A QUALIFIED Manager, tall, reliable, experienced; Counter, Dispensing, Photography; good references. Parkinson, 13 Hartington Road, St. Margaret's, Twickenham.

A QUALIFIED young lady; 4 years' excellent Dispensing and Counter experience; highest references. Dale, 31, Highdown Road, Brighton.

A SCOTCH Lady Pharmacist, 7½ years' excellent varied experience, desires post; splendid references; England or Scotland, town or country. 256/18, Office of this Paper.

A DVERTISER requires post with Retail or Manufacturing firm; has had Manufacturing and some Dispensing experience; tall, willing; reasonable remuneration to commence; satisfactory references. Gay, 18, Grenfell Road, Maidenhead.

A N experienced unqualified urgently requires post as Dispenser, Traveller, or other position of trust; excellent testimonials; now disengaged. P.C.B. 8/5, Office of this Paper.

A S qualified Assistant or Dispenser, lady, desires permanency; disengaged; excellent references; energetic, accurate. Elliott, "Hillcrest," Pattens Lane, Rochester.

A S Manager for branch or widow's business in lieu of home; salary no object; an abstainer; energetic and trustworthy elderly qualified Chemist, with best London and provincial experience and references. Williams, 21, Marcus Street, Carnarvon.

A SSISTANT, unqualified, Counter, N.H.I.; Photographics; light retail or Drug Store; abstainer; Metropolis of London only. Write, "Sartor Resartus," 257/22, Office of this Paper.

A SSISTANT, 21, desires situation; Brighton or Hove preferred; 8 years' experience in Dispensing, Counter, Photography; disengaged March 5. L. G. Russell, 70 Islingwood Road, Brighton.

A SSISTANT; unqualified; 32; experienced; Counter, Dispensing, Photography; disengaged. E. Searle, 2 Carlisle Avenue, Plymouth.

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